



# C/EBP $\beta$ (phospho Thr235) Polyclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Catalog No</b>                  | YP-Ab-01231                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Reactivity</b>                  | Human;Mouse;Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Applications</b>                | WB;IHC;IF;ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene Name</b>                   | CEBPB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from human C/EBP-beta around the phosphorylation site of Thr235/188. AA range:201-250                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Specificity</b>                 | Phospho-C/EBP $\beta$ (T235) Polyclonal Antibody detects endogenous levels of C/EBP $\beta$ protein only when phosphorylated at T235.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>                      | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purification</b>                | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Dilution</b>                    | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>                      | $\geq 90\%$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>                    | CEBPB   CEBP beta (phospho-T235);p-CEBP beta;phospho-CEBP beta;p-CEBPB;CEBPB   CEBP beta (phospho-Thr235);C/EBP-beta;IL6DBP;NF-IL6;TCF5;C/EBPbeta;CRP2;IL-6DBP;LAP;LIP;NF-M;Nfil6;CEBPB_HUMAN;CEBPB;C/EBP beta;Liver activator protein (LAP);Liver-enriched inhibitory protein (LIP);Nuclear factor NF-IL6;Transcription factor 5 (TCF-5);CEBPB_MOUSE;AGP/EBP;Interleukin-6-dependent-binding protein (IL-6DBP);Liver-enriched transcriptional activator (LAP);CEBPB_RAT;C/EBP-related protein 2;Silencer factor B (SF-B);Sfb;C/EBP $\beta$ ;CCAAT/enhancer-binding protein beta;PP9092;Liver activator protein;Transcription factor 5;TCF-5 |
| <b>Observed Band</b>               | 36kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Calculated Molecular Weight</b> | 36kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Cell Pathway</b>                | Nucleus . Cytoplasm . Translocates to the nucleus when phosphorylated at Ser-288. In T-cells when sumoylated drawn to pericentric heterochromatin thereby allowing proliferation (By similarity). .                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Tissue Specificity</b>          | Expressed at low levels in the lung, kidney and spleen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |



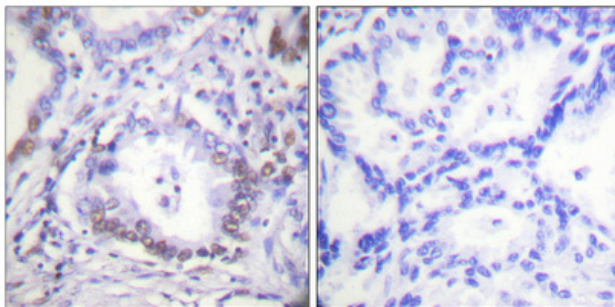
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|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Function</b>                  | function: Important transcriptional activator in the regulation of genes involved in immune and inflammatory responses. Specifically binds to an IL-1 response element in the IL-6 gene. NF-IL6 also binds to regulatory regions of several acute-phase and cytokines genes. It probably plays a role in the regulation of acute-phase reaction, inflammation and hemopoiesis. The consensus recognition site is 5'-T[ TG]NNGNAA[ TG]-3'. PTM: Sumoylated by polymeric chains of SUMO2 or SUMO3. similarity: Belongs to the bZIP family. similarity: Belongs to the bZIP family. C/EBP subfamily. similarity: Contains 1 bZIP domain. subunit: Binds DNA as a dimer and can form stable heterodimers with C/EBP alpha, delta and gamma. Interacts with TRIM28 and PTGES2. tissue specificity: Expressed at low levels in the lung, kidney and spleen. |
| <b>Background</b>                | This intronless gene encodes a transcription factor that contains a basic leucine zipper (bZIP) domain. The encoded protein functions as a homodimer but can also form heterodimers with CCAAT/enhancer-binding proteins alpha, delta, and gamma. Activity of this protein is important in the regulation of genes involved in immune and inflammatory responses, among other processes. The use of alternative in-frame AUG start codons results in multiple protein isoforms, each with distinct biological functions. [provided by RefSeq, Oct 2013],                                                                                                                                                                                                                                                                                              |
| <b>matters needing attention</b> | Avoid repeated freezing and thawing!                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Usage suggestions</b>         | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |



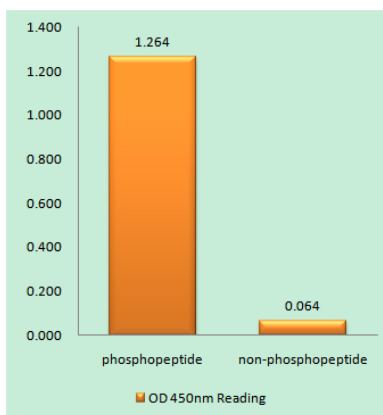
## Products Images



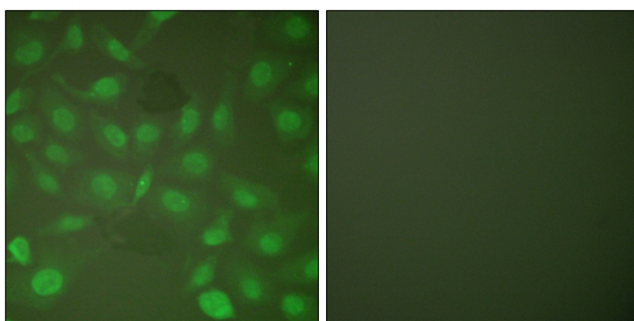
Western Blot analysis of various cells using Phospho-C/EBP  $\beta$  (T235) Polyclonal Antibody diluted at 1:500



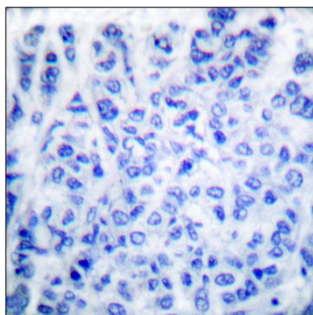
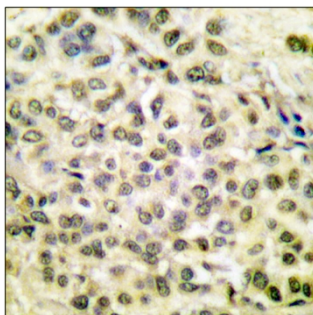
Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100 (4° overnight). High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using C/EBP-beta (Phospho-Thr235/188) Antibody



Immunofluorescence analysis of HepG2 cells, using C/EBP-beta (Phospho-Thr235/188) Antibody. The picture on the right is blocked with the phosphopeptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using C/EBP-beta (Phospho-Thr235/188) Antibody. The picture on the right is blocked with the phospho peptide.