



CHOP (phospho Ser30) Polyclonal Antibody

Catalog No	YP-Ab-00222
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IHC;IF;ELISA
Gene Name	DDIT3
Immunogen	The antiserum was produced against synthesized peptide derived from human CHOP around the phosphorylation site of Ser30. AA range:15-64
Specificity	Phospho-CHOP (S30) Polyclonal Antibody detects endogenous levels of CHOP protein only when phosphorylated at S30.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CHOP;DDIT3;DNA damage-inducible transcript 3 protein;CHOP10;GADD153; DDIT-3;C/EBP-homologous protein;C/EBP-homologous protein 10;CHOP-10; Growth arrest and DNA damage-inducible protein GADD153
Observed Band	19kD
Calculated Molecular Weight	19kD
Cell Pathway	Cytoplasm . Nucleus . Present in the cytoplasm under non-stressed conditions and ER stress leads to its nuclear accumulation. .
Tissue Specificity	Muscle,Skeletal muscle,
Function	disease:A chromosomal aberration involving DDIT3 is found in a form of malignant myxoid liposarcoma [MIM:126337]. Translocation t(12;16)(q13;p11) with FUS.,function:Inhibits the DNA-binding activity of C/EBP and LAP by forming heterodimers that cannot bind DNA.,similarity:Belongs to the bZIP family.,similarity:Contains 1 bZIP domain.,subunit:Heterodimer.,



Background

This gene encodes a member of the CCAAT/enhancer-binding protein (C/EBP) family of transcription factors. The protein functions as a dominant-negative inhibitor by forming heterodimers with other C/EBP members, such as C/EBP and LAP (liver activator protein), and preventing their DNA binding activity. The protein is implicated in adipogenesis and erythropoiesis, is activated by endoplasmic reticulum stress, and promotes apoptosis. Fusion of this gene and FUS on chromosome 16 or EWSR1 on chromosome 22 induced by translocation generates chimeric proteins in myxoid liposarcomas or Ewing sarcoma. Multiple alternatively spliced transcript variants encoding two isoforms with different length have been identified. [provided by RefSeq, Aug 2010],

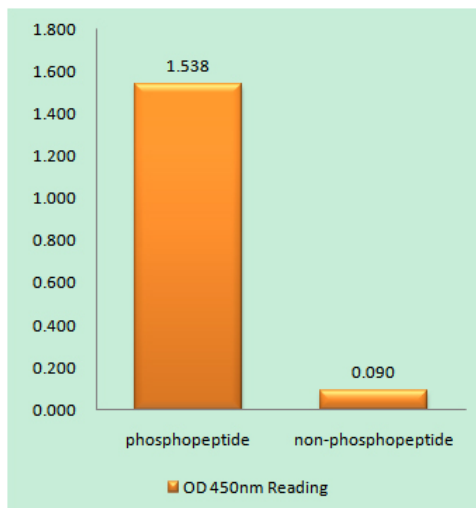
matters needing attention

Avoid repeated freezing and thawing!

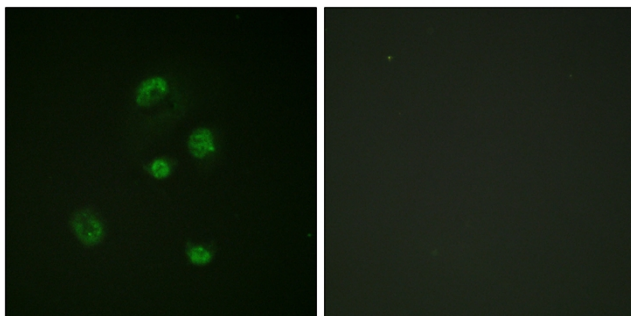
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

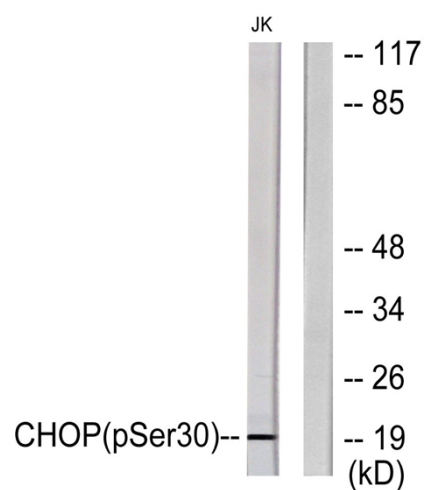


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using CHOP (Phospho-Ser30) Antibody



Immunofluorescence analysis of A549 cells, using CHOP (Phospho-Ser30) Antibody. The picture on the right is blocked with the phospho peptide.

Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using CHOP (Phospho-Ser30) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from Jurkat cells treated with PMA 125ng/ml 30', using CHOP (Phospho-Ser30) Antibody. The lane on the right is blocked with the phospho peptide.