



# CEACAM1/5 Polyclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Catalog No</b>                  | YP-Ab-17083                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Reactivity</b>                  | Human;Rat;Mouse;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Applications</b>                | WB;IHC;IF;ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Gene Name</b>                   | CEACAM1/CEACAM5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from the N-terminal region of human CEACAM1/CEACAM5. AA range:31-80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Specificity</b>                 | CEACAM1/5 Polyclonal Antibody detects endogenous levels of CEACAM1/5 protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <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>                    | WB: 1/500 - 1/2000. IHC-p: 1:100-300 ELISA: 1/20000.. IF 1:50-200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>                    | Antigen CD66;BGP 1;BGP;BGP-1;BGPI;Biliary glycoprotein 1;Biliary glycoprotein adhesion molecule;Biliary glycoprotein;Carcinoembryonic antigen related cell adhesion molecule 1;carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein);Carcinoembryonic antigen-related cell adhesion molecule 1;CD66a;CD66a antigen;CEACAM1;CEAM1_HUMAN;meconium antigen 1;CEACAM1/5;CEACAM1/CEACAM5;Carcinoembryonic antigen-related cell adhesion molecule 1/Carcinoembryonic antigen-related cell adhesion molecule 5;BGP1;CEACAM5;CEA;Carcinoembryonic antigen-related cell adhesion molecule 5;Carcinoembryonic antigen;Meconium antigen 100;CD66e |
| <b>Observed Band</b>               | 58kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Calculated Molecular Weight</b> | 58kD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Cell Pathway</b>                | [Isoform 1]: Cell membrane ; Single-pass type I membrane protein . Lateral cell membrane . Apical cell membrane . Basal cell membrane . Cell junction . Cell junction, adherens junction . Canalicular domain of hepatocyte plasma membranes. Found as a mixture of monomer, dimer and oligomer in the plasma membrane. Occurs predominantly as cis-dimers and/or small cis-oligomers in the cell junction regions. Found as dimer in the solution. Predominantly localized to the lateral cell membranes. .; [Isoform 2]: Secreted .; [Isoform 3]: Secreted .; [Isoform 4]: Secreted .; [Isoform 5]: Cell membrane; Single-pass type I                           |

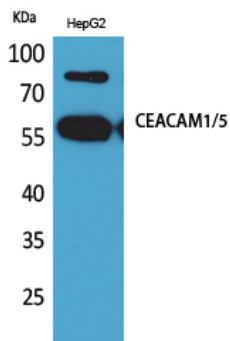


membrane protein.; [Isoform 6]: Cell membrane; Single-pass type I membrane protein.; [Isoform 7]: Cell membrane; Single-pass type I membrane protein.; [Isoform 8]: Cell membrane ; Sing

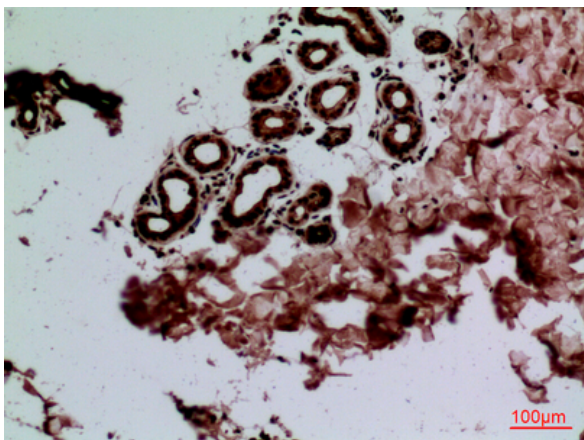
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| <b>Tissue Specificity</b>        | Expressed in columnar epithelial cells of the colon (at protein level) (PubMed:10436421). The predominant forms expressed by T cells are those containing a long cytoplasmic domain (PubMed:18424730). Expressed in granulocytes and lymphocytes. Leukocytes only express isoforms 6 and isoform 1 (PubMed:11994468).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Function</b>                  | disease:Increased serum levels of BGP-1 are found in individuals suffering from hepatic disorders.,disease:Loss or reduced expression is a major event in colorectal carcinogenesis.,similarity:Belongs to the immunoglobulin superfamily. CEA family.,similarity:Contains 1 Ig-like V-type (immunoglobulin-like) domain., similarity:Contains 3 Ig-like C2-type (immunoglobulin-like) domains.,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Background</b>                | This gene encodes a member of the carcinoembryonic antigen (CEA) gene family, which belongs to the immunoglobulin superfamily. Two subgroups of the CEA family, the CEA cell adhesion molecules and the pregnancy-specific glycoproteins, are located within a 1.2 Mb cluster on the long arm of chromosome 19. Eleven pseudogenes of the CEA cell adhesion molecule subgroup are also found in the cluster. The encoded protein was originally described in bile ducts of liver as biliary glycoprotein. Subsequently, it was found to be a cell-cell adhesion molecule detected on leukocytes, epithelia, and endothelia. The encoded protein mediates cell adhesion via homophilic as well as heterophilic binding to other proteins of the subgroup. Multiple cellular activities have been attributed to the encoded protein, including roles in the differentiation and arrangement of tissue thre |
| <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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |



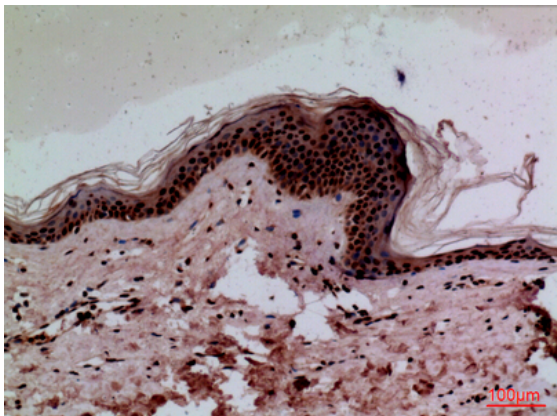
## Products Images



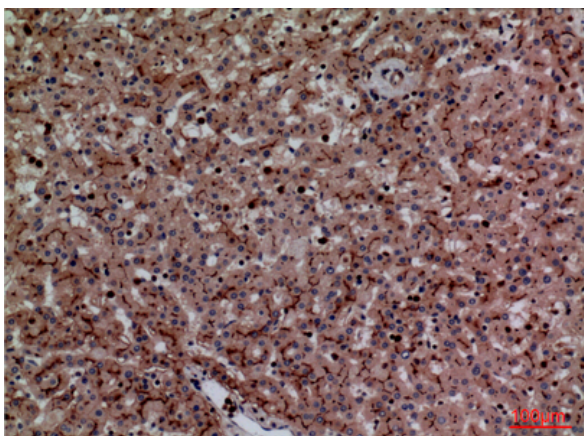
Western Blot analysis of HepG2 cells using CEACAM1/5 Polyclonal Antibody. Antibody was diluted at 1:1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



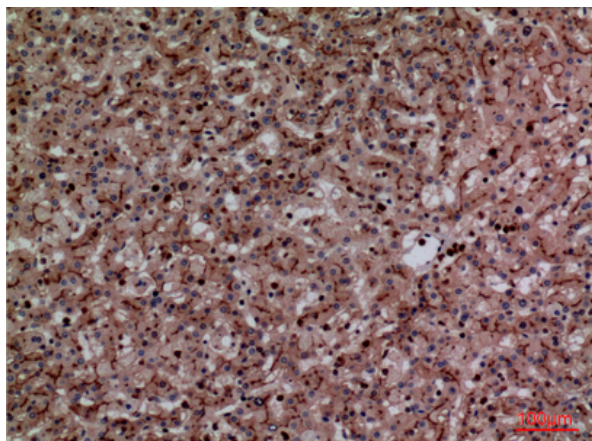
Immunohistochemical analysis of paraffin-embedded human-skin, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-skin, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100



Immunohistochemical analysis of paraffin-embedded human-liver, antibody was diluted at 1:100