Best Tools for immunology Research

# CBP 35 Polyclonal Antibody

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|---|---|
| **Catalog No :** | YT0695 |
| **Reactivity :** | Human;Mouse;Rat |
| **Applications :** | WB;IHC;IF;ELISA |
| **Target :** | Galectin-3 |
| **Gene Name :** | LGALS3 |
| **Protein Name :** | Galectin-3 |
| **Human Gene Id :** | 3958 |
| **Human Swiss Prot No :** | P17931 |
| **Mouse Swiss Prot No :** | P16110 |
| **Rat Gene Id :** | 83781 |
| **Rat Swiss Prot No :** | P08699 |
| **Immunogen :** | The antiserum was produced against synthesized peptide derived from human Galectin 3. AA range:141-190 |
| **Specificity :** | CBP 35 Polyclonal Antibody detects endogenous levels of CBP 35 protein. |
| **Formulation :** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source :** | Polyclonal, Rabbit,IgG |
| **Dilution :** | WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications. |
| **Purification :** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Concentration :** | 1 mg/ml |

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 33kD

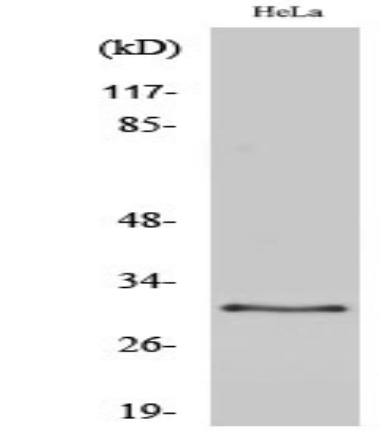
**Background :** This gene encodes a member of the galectin family of carbohydrate binding proteins. Members of this protein family have an affinity for beta-galactosides. The encoded protein is characterized by an N-terminal proline-rich tandem repeat domain and a single C-terminal carbohydrate recognition domain. This protein can self-associate through the N-terminal domain allowing it to bind to multivalent saccharide ligands. This protein localizes to the extracellular matrix, the cytoplasm and the nucleus. This protein plays a role in numerous cellular functions including apoptosis, innate immunity, cell adhesion and T-cell regulation. The protein exhibits antimicrobial activity against bacteria and fungi. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Oct 2014],

**Function :** function:Galactose-specific lectin which binds IgE. May mediate with the alpha-3, beta-1 integrin the stimulation by CSPG4 of endothelial cells migration. Together with DMBT1, required for terminal differentiation of columnar epithelial cells during early embryogenesis.,online information:Galectin-3,similarity:Contains 1 galectin domain.,subcellular location:Cytoplasmic in adenomas and carcinomas. May be secreted by a non-classical secretory pathway and associate with the cell surface.,subunit:Probably forms homo- or heterodimers. Interacts with DMBT1 (By similarity). Forms a complex with the ITGA3, ITGB1 and CSPG4. Interacts with LGALS3BP, LYPD3, CYHR1 and UACA.,tissue specificity:A major expression is found in the colonic epithelium. It is also abundant in the activated macrophages.,

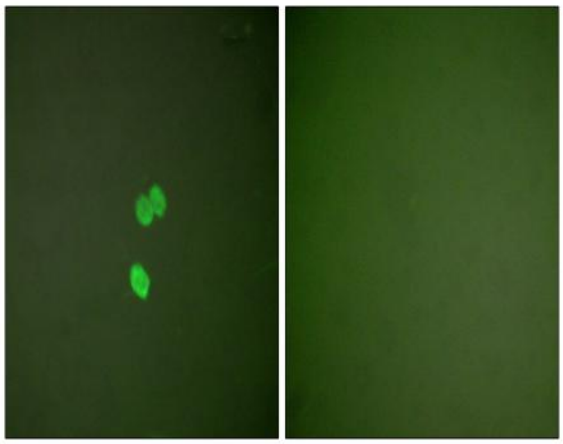
**Subcellular Location :** Cytoplasm . Nucleus. Secreted . Secreted by a non-classical secretory pathway and associates with the cell surface. Can be secreted; the secretion is dependent on protein unfolding and facilitated by the cargo receptor TMED10; it results in protein translocation from the cytoplasm into the ERGIC (endoplasmic reticulum-Golgi intermediate compartment) followed by vesicle entry and secretion (PubMed:32272059). .

**Expression :** A major expression is found in the colonic epithelium. It is also abundant in the activated macrophages. Expressed in fetal membranes.

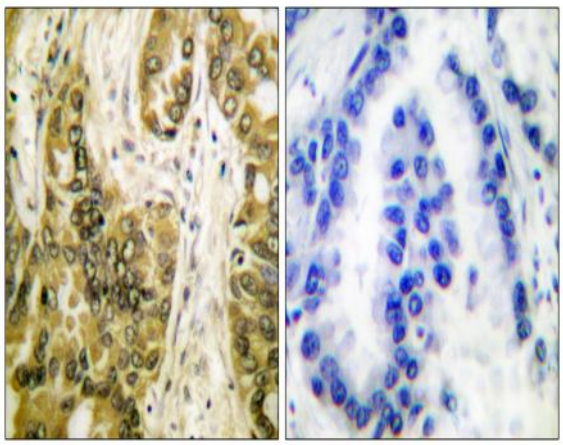
## Products Images



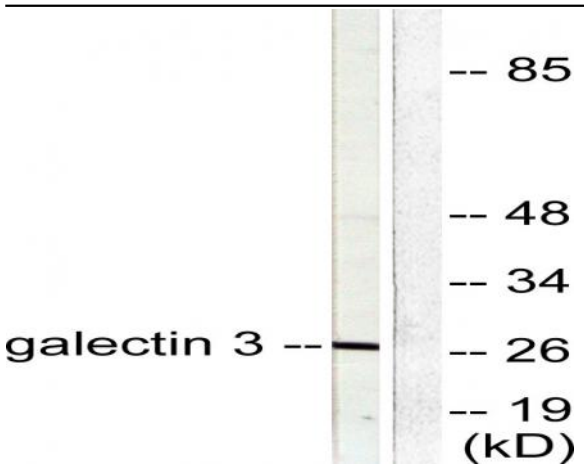

Western Blot analysis of various cells using CBP 35 Polyclonal Antibody diluted at 1:2000



Immunofluorescence analysis of NIH/3T3 cells, using Galectin 3 Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using Galectin 3 Antibody. The picture on the right is blocked with the synthesized peptide.




Western blot analysis of lysates from HeLa cells, using Galectin 3 Antibody. The lane on the right is blocked with the synthesized peptide.