

CBP 35 Polyclonal Antibody

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

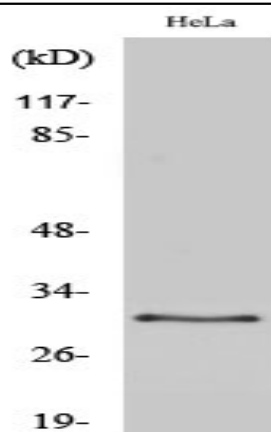
Background : This gene encodes a member of the galectin family of carbohydrate binding proteins. Members of this protein family have an affinity for beta-galactosides. The encoded protein is characterized by an N-terminal proline-rich tandem repeat domain and a single C-terminal carbohydrate recognition 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.,

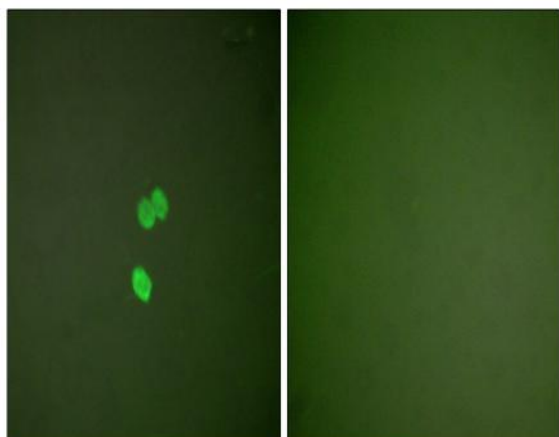
Subcellular Location : Cytoplasm . Nucleus. Secreted . Secreted by a non-classical secretory pathway and associates with the cell surface. Can be secreted; the secretion is dependent on protein unfolding and facilitated by the cargo receptor TMED10; it results in protein translocation from the cytoplasm 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.

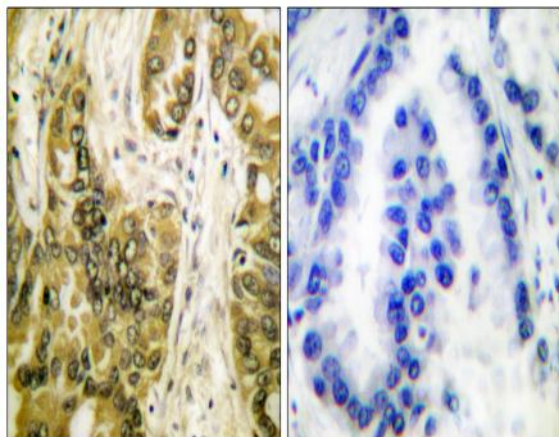
Products Images



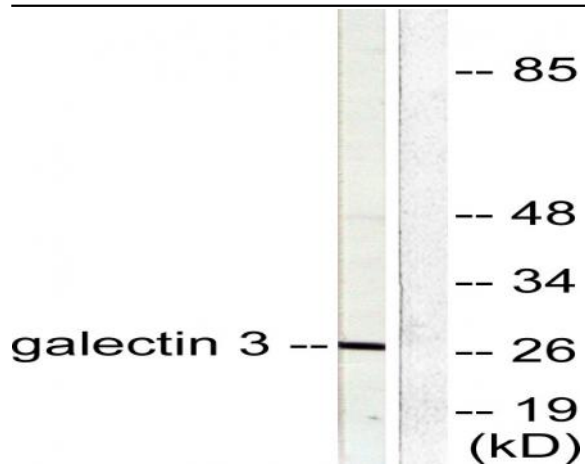
Western Blot analysis of various cells using CBP 35 Polyclonal Antibody diluted at 1:2000



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.