

Rabbit LGALS3 Polyclonal Antibody | anti-LGALS3 antibody

LGALS3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA326191	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

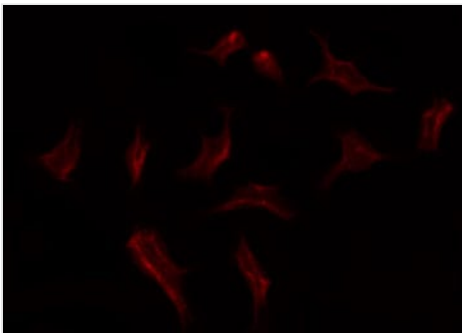
PRODUCT SYNONYMS

LGALS3; Polyclonal Antibody; LGALS3 Antibody; 35 kDa lectin; Carbohydrate binding protein 35; Carbohydrate-binding protein 35; CBP 35; CBP35; Gal-3; GAL3; Galactose-specific lectin 3; Galactoside-binding protein; GALBP; Galectin 3 internal gene; included; Galectin-3; Galectin3; GALIG; GBP; IgE binding protein; IgE-binding protein; L 31; L 34; L-31; L-34 galactoside-binding lectin; L31; Laminin-binding protein; Lectin L-29; Lectin; galactose binding; soluble 3; LEG3_HUMAN; LGALS2; MAC 2 antigen; Mac-2; Mac-2 antigen; MAC2; Macrophage galactose-specific lectin; MGC105387; anti-LGALS3 antibody

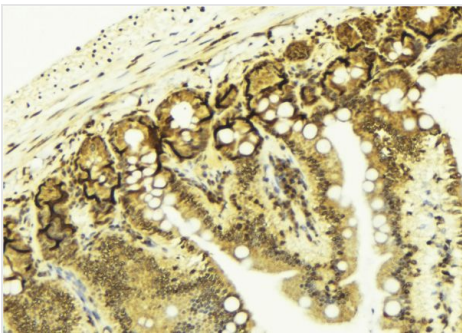
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	LGALS3 antibody detects endogenous levels of total LGALS3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	250
Applicable Applications for anti-LGALS3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human LGALS3
Subcellular Location	Nucleus. Cytoplasmic in adenomas and carcinomas. May be secreted by a non-classical secretory pathway and associate with the cell surface.
Tissue Specificity	A major expression is found in the colonic epithelium. It is also abundant in the activated macrophages. Expressed in fetal membranes.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (91%), Bovine (91%), Horse (100%), Sheep (91%), Rabbit (100%), Dog (82%), Xenopus (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

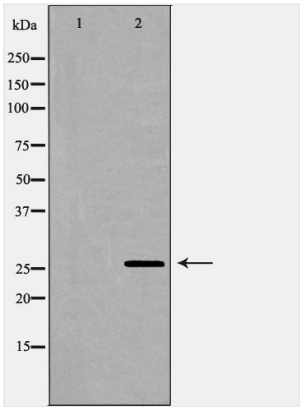
IMAGES



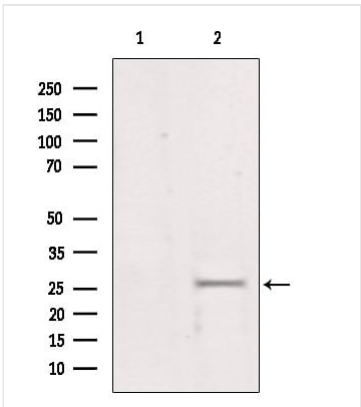
IF (Immunofluorescence)
AAA326191 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IHC (Immunohistochemistry)
AAA326191 at 1/100 staining Mouse colon tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis of extracts of hela, using LGALS3 antibody. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis of extracts from mouse brain, using LGALS3 Antibody. Lane 1 was treated with the blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-LGALS3 antibody

Description: Galectins are a family of soluble b-galactoside-binding animal lectins that modulate cell-to-cell adhesion and cell-to-extracellular matrix (ECM) inter-actions and play a role in tumor progression, pre-mRNA splicing and apop-tosis. The galectin-3 protein, also known as Mac-2, hMac-2, GALBP, CBP35 or LGALS3, contains a single carbohydrate binding domain, which binds galactose-containing glycoconjugates. Galectin-3 is expressed in colonic and intestinal epithelium, inflammatory macrophages, papillary and follicular carcinomas, neoplastic astrocytes and some B and T lymphocytes. Upregulated expression of galectin-3 is involved in cancer progression and metastasis. Galectin-3 mediates the endocytosis of α 5 β 1 Integrins in a lactose-dependent manner and is associated with thyroid malignancy and Crohn's disease. It may also be used as a marker for identifying cases involving Hurthle cell adenomas and carcinomas.

Function: Galactose-specific lectin which binds IgE. May mediate with the α 3, β 1 integrin the stimulation by CSPG4 of endothelial cells migration. Together with DMBT1, required for terminal differentiation of columnar epithelial cells during early embryogenesis (By similarity). In the nucleus: acts as a pre-mRNA splicing factor. Involved in acute inflammatory responses including neutrophil activation and adhesion, chemoattraction of monocytes macrophages, opsonization of apoptotic neutrophils, and activation of mast cells.

Subunit Structure: Probably forms homo-or heterodimers. Interacts with DMBT1 (By similarity). Interacts with CD6 and ALCAM (PubMed:24945728). Forms a complex with the ITGA3, ITGB1 and CSPG4. Interacts with LGALS3BP, LYPD3, CYHR1 and UACA.

NCBI AND UNIPROT INFORMATION

NCBI GI #	115430223
NCBI GeneID	3958

NCBI Accession #	NP_002297.2
NCBI GenBank Nucleotide #	NM_002306.3
UniProt Accession #	P17931; Q16005; Q6IBA7; Q96J47; B2RC38
Molecular Weight	Observed: 26 kDa Predicted: 27 kDa
NCBI Official Full Name	galectin-3 isoform 1
NCBI Official Synonym Full Names	galectin 3
NCBI Official Symbol	LGALS3
NCBI Official Synonym Symbols	L31; GAL3; MAC2; CBP35; GALBP; GALIG; LGALS2
NCBI Protein Information	galectin-3
UniProt Protein Name	Galectin-3
UniProt Gene Name	LGALS3
UniProt Synonym Gene Names	MAC2; Gal-3; CBP 35; GALBP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/Igals3-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/326191>