

Rabbit LEG9 Polyclonal Antibody | anti-LEG9 antibody

LEG9 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321945	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

LEG9; Polyclonal Antibody; LEG9 Antibody; 36 kDa beta-galactoside-binding lectin; Ecalectin; Gal-9; Galectin-9; galectin9; HOM HD 21; HOMHD21; HUAT; Lectin galactoside binding soluble 9; LEG9_HUMAN; LGAL S9; LGALS 9; Lgals9; LGALS9A; MGC117375; MGC125973; MGC125974; Tumor antigen HOM-HD-21; UAT; Urate transporter/channel; Urate transporter/channel protein; anti-LEG9 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	LEG9 antibody detects endogenous levels of total LEG9
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	246
Applicable Applications for anti-LEG9 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human LEG9
Subcellular Location	Cytoplasm. Secreted. May also be secreted by a non-classical secretory pathway.
Tissue Specificity	Peripheral blood leukocytes and lymphatic tissues. Expressed in lung, liver, breast and kidney with higher levels in tumor endothelial cells than normal endothelium (at protein level) (PubMed:24333696). Expressed in trophoblast cells in decidua and placenta in pregnancy (at protein level) (PubMed:23242525, PubMed:25578313). Isoform 2 is the most abundant isoform expressed in endothelial cells (PubMed:24333696). Upon endothelial cell activation isoform 2 expression decreases while expression of isoform 3 and isoform 5 increases (PubMed:24333696). Isoform 4 decreases in pathological pregnancy (PubMed:23242525).
Predicted Cross Reactivity	Pig, Bovine
Similarity	Pig (80%), Bovine (82%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA321945 staining HepG2 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.



WB (Western Blot)

Western blot analysis of LEG9 expression in HepG2 cells, The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA321945 staining U-251 MG cells 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) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-LEG9 antibody

Function: Binds galactosides (PubMed:18005988). Has high affinity for the Forssman pentasaccharide (PubMed:18005988). Ligand for HAVCR2/TIM3 (PubMed:16286920). Binding to HAVCR2 induces T-helper type 1 lymphocyte (Th1) death (PubMed:16286920). Also stimulates bactericidal activity in infected macrophages by causing macrophage activation and IL1B secretion which restricts intracellular bacterial growth (By similarity). Ligand for P4HB; the interaction retains P4HB at the cell surface of Th2 T-helper cells, increasing disulfide reductase activity at the plasma membrane, altering the plasma membrane redox state and enhancing cell migration (PubMed:21670307). Ligand for CD44; the interaction enhances binding of SMAD3 to the FOXP3 promoter, leading to up-regulation of FOXP3 expression and increased induced regulatory T (iTreg) cell stability and suppressive function (By similarity). Promotes ability of mesenchymal stromal cells to suppress T-cell proliferation (PubMed:23817958). Expands regulatory T-cells and induces cytotoxic T-cell apoptosis following virus infection (PubMed:20209097). Activates ERK1/2 phosphorylation inducing cytokine (IL-6, IL-8, IL-12) and chemokine (CCL2) production in mast and dendritic cells (PubMed:24465902, PubMed:16116184). Inhibits degranulation and induces apoptosis of mast cells (PubMed:24465902). Induces maturation and migration of dendritic cells (PubMed:25754930, PubMed:16116184). Inhibits natural killer (NK) cell function (PubMed:23408620). Can transform NK cell phenotype from peripheral to decidual during pregnancy (PubMed:25578313). Astrocyte derived galectin-9 enhances microglial TNF production (By similarity). May play a role in thymocyte-epithelial interactions relevant to the biology of the thymus. May provide the molecular basis for urate flux across cell membranes, allowing urate that is formed during purine metabolism to efflux from cells and serving as an electrogenic transporter that plays an important role in renal and gastrointestinal urate excretion (By similarity). Highly selective to the anion urate (By similarity).
Subunit Structure: Monomer.
Similarity: Contains two homologous but distinct carbohydrate-binding domains.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1054470958
NCBI GeneID	3965
NCBI Accession #	NP_001317092.1
NCBI GenBank Nucleotide #	NM_001330163.1
UniProt Accession #	O00182; O14532; O75028; Q3B8N1; Q53FQ0; Q8WYQ7; Q9NQ58; A7VJG6; F8W9W4
Molecular Weight	Observed: 40 kD Predicted: 40 kDa

NCBI Official Full Name	galectin-9 isoform 3
NCBI Official Synonym Full Names	galectin 9
NCBI Official Symbol	LGALS9
NCBI Official Synonym Symbols	HUAT; LGALS9A
NCBI Protein Information	galectin-9
UniProt Protein Name	Galectin-9
UniProt Gene Name	LGALS9
UniProt Synonym Gene Names	Gal-9

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/leg9-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/321945>