

Mouse anti-Human Galectin-1 Monoclonal Antibody | anti-LGALS1 antibody

Anti-Galectin-1 Antibody, Mouse Monoclonal

CATALOG # AAA254801	HOST Mouse	REACTIVITY Human	APPLICATIONS Immunoprecipitation, Western Blot
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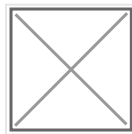
PRODUCT SYNONYMS

Galectin-1; Monoclonal Antibody; Anti-Galectin-1 Antibody; Mouse Monoclonal; Galectin-1/LGALS1 Antibody; Mouse MAb; lectin; galactoside-binding; soluble; 1; Anti-GAL1 Antibody; Anti-GBP Antibody; anti-LGALS1 antibody

PRODUCT SPECIFICATIONS

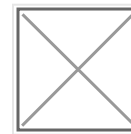
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Clone Number	02
Specificity	Human Galectin-1/LGALS1
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-LGALS1 antibody	IP (Immunoprecipitation), WB (Western Blot)
Immunogen	Recombinant Human Galectin-1/LGALS1 protein
Conjugation	Unconjugated
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Human Galectin-1/LGALS1 (rh Galectin-1/LGALS1). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IP (Immunoprecipitation)

Galectin1 was immunoprecipitated using: Lane A: 0.5 mg Hela Whole Cell Lysate, 0.5 uL anti-Galectin1 mouse monoclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-Galectin1 mouse monoclonal antibody, at 1:250 dilution. Secondary antibody: DyLight 800-labeled antibody to Mouse IgG (H+L), at 1:7500 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 15 kDa. Observed band size: 15 kDa.



WB (Western Blot)

Anti-Galectin1 mouse monoclonal antibody at 1:500. Lane A: Hela Whole Cell Lysate. Lane B: A431 Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Mouse IgG H&L (DyLight800) at 1/15000 dilution. Developed using the Odyssey technique. Performed under reducing conditions.

ADDITIONAL INFORMATION

Related Product Information for anti-LGALS1 antibody	Galectin-1 (Gal-1, GAL1), is a member of the galectins, a family of animal lectins ranging from <i>Caenorhabditis elegans</i> to humans, which is defined by their affinity for beta-galactosides and by significant sequence similarity in the carbohydrate-binding site. It is a homodimer with a subunit molecular mass of 14.5 kDa, which contains six cysteine residues per subunit. The cysteine residues should be in a free state to maintain a molecular structure that is capable of showing lectin activity. This endogenous lectin widely expressed at sites of inflammation and tumor growth has been postulated as an attractive immunosuppressive agent to restore immune cell tolerance and homeostasis in autoimmune and inflammatory settings. On the other hand, galectin-1 contributes to different steps of tumor progression including cell adhesion, migration, and tumor-immune escape, suggesting that blockade of galectin-1 might result in therapeutic benefits in cancer. Several potential glycoprotein ligands for galectin-1 have been identified, including lysosome-associated membrane glycoproteins and fibronectin, laminin, as well as T-cell glycoproteins CD43 and CD45. Evidence points to Gal-1 and its ligands as one of the master regulators of such immune responses as T-cell homeostasis and survival, T-cell immune disorders, inflammation, and allergies as well as host-pathogen interactions.
References	Gaudet AD, et al. (2005) Expression and functions of galectin-1 in sensory and motoneurons. <i>Curr Drug Targets</i> . 6(4): 419-25. Kadoya T, et al. (2006) Structural and functional studies of galectin-1: a novel axonal regeneration-promoting activity for oxidized galectin-1. <i>Curr Drug Targets</i> . 6(4): 375-83. Camby I, et al. (2006) Galectin-1: a small protein with major functions. <i>Glycobiology</i> . 16(11): 137R-157R. Salatino M, et al. (2008) Galectin-1 as a potential therapeutic target in autoimmune disorders and cancer. <i>Expert Opin Biol Ther</i> . 8(1): 45-57.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504981
NCBI GeneID	3956
NCBI Accession #	NP_002296.1
NCBI GenBank Nucleotide #	NM_002305.3
UniProt Accession #	P09382 ; Q9UDK5 ; B2R5E8
Molecular Weight	14,716 Da
NCBI Official Full Name	galectin-1
NCBI Official Synonym Full Names	lectin, galactoside-binding, soluble, 1
NCBI Official Symbol	LGALS1
NCBI Official Synonym Symbols	GBP; GAL1
NCBI Protein Information	galectin-1; HBL; HPL; gal-1; HLBP14; galaptin; galectin 1; 14 kDa lectin; S-Lac lectin 1; lactose-binding lectin 1; 14 kDa laminin-binding protein; putative MAPK-activating protein PM12; beta-galactoside-binding lectin L-14-I; beta-galactoside-binding pro
UniProt Protein Name	Galectin-1
UniProt Gene Name	LGALS1
UniProt Synonym Gene Names	Gal-1; HLBP14
UniProt Entry Name	LEG1_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/monoclonal/galectin-1-antibody-clone-02-immunoprecipitation-western-blot-elisa/254801>