

#13888 Store at -20°C

Galectin-1/LGALS1 (D608T) Rabbit mAb (IHC Formulated)



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: IHC-P	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #P09382	Entrez-Gene Id: 3956
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Product Usage Information	Application Immunohistochemistry (Paraffin)	Dilution 1:250
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	Galectin-1/LGALS1 (D608T) Rabbit mAb (IHC Formulated) recognizes endogenous levels of total galectin-1/LGALS1 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human galectin-1/LGALS1 protein.	
Background	Galectins are a family of β -galactose binding proteins that are characterized by their affinity for poly-N-acetyllactosamine-enriched glycoconjugates and their carbohydrate-binding site (1,2). Members of the galectin family have been implicated in a variety of biological functions including cell adhesion (3), growth regulation (4), cytokine production (5), T cell apoptosis (6), and immune responses (7). Galectin-1/LGALS1 has been shown to be expressed in a wide range of tissues and cell types. The level and pattern of expression of galectin-1 have been shown to change during development (8). In addition to a role in developmental processes, galectin-1 has been shown to be involved in central immune tolerance and may function in tumorigenesis by modulating the immune response to the tumor (9,10). Research studies have shown that galectin-1 expression is increased in several human cancers, suggesting a correlation with metastatic potential (10).	
Background References	<ol style="list-style-type: none"> 1. Barondes, S.H. et al. (1994) <i>Cell</i> 76, 597-8. 2. Barondes, S.H. et al. (1994) <i>J Biol Chem</i> 269, 20807-10. 3. Offner, H. et al. (1990) <i>J Neuroimmunol</i> 28, 177-84. 4. Wells, V. and Mallucci, L. (1991) <i>Cell</i> 64, 91-7. 5. Filer, A. et al. (2009) <i>Arthritis Rheum</i> 60, 1604-14. 6. Perillo, N.L. et al. (1995) <i>Nature</i> 378, 736-9. 7. Cooper, D.N. et al. (1991) <i>J Cell Biol</i> 115, 1437-48. 8. Puche, A.C. et al. (1996) <i>Dev Biol</i> 179, 274-87. 9. van den Br�le, F. et al. (2003) <i>Lab Invest</i> 83, 377-86. 10. Salati�, M. et al. (2008) <i>Expert Opin Biol Ther</i> 8, 45-57. 	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Applications Key	IHC-P: Immunohistochemistry (Paraffin)
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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