

Galectin-1/LGALS1 Antibody



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

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 15	Source/Isotype: Rabbit	UniProt ID: #P09382	Entrez-Gene Id: 3956
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Galectin-1/LGALS1 Antibody detects endogenous levels of total galectin-1 protein.

Species predicted to react based on 100% sequence homology

Monkey

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu33 of human galectin-1 protein. Antibodies are purified by protein A and peptide affinity chromatography.

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

1. Barondes, S.H. et al. (1994) *Cell* 76, 597-8.
2. Barondes, S.H. et al. (1994) *J Biol Chem* 269, 20807-10.
3. Offner, H. et al. (1990) *J Neuroimmunol* 28, 177-84.
4. Wells, V. and Mallucci, L. (1991) *Cell* 64, 91-7.
5. Filer, A. et al. (2009) *Arthritis Rheum* 60, 1604-14.
6. Perillo, N.L. et al. (1995) *Nature* 378, 736-9.
7. Cooper, D.N. et al. (1991) *J Cell Biol* 115, 1437-48.
8. Puche, A.C. et al. (1996) *Dev Biol* 179, 274-87.
9. van den Brûle, F. et al. (2003) *Lab Invest* 83, 377-86.
10. Salatino, M. et al. (2008) *Expert Opin Biol Ther* 8, 45-57.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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