

**#5418** Store at -20°C

## Galectin-1/LGALS1 Antibody


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

<b>Applications:</b> WB	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 15	<b>Source:</b> Rabbit	<b>UniProt ID:</b> #P09382	<b>Entrez-Gene Id:</b> 3956
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	Galectin-1/LGALS1 Antibody detects endogenous levels of total galectin-1 protein.	
<b>Species predicted to react based on 100% sequence homology:</b>	Monkey	
<b>Source / Purification</b>	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.	
<b>Background</b>	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).	
<b>Background References</b>	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 Brûle, F. et al. (2003) <i>Lab Invest</i> 83, 377-86. 10. Salatino, M. et al. (2008) <i>Expert Opin Biol Ther</i> 8, 45-57.	

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

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