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Galectin-3/LGALS3 Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	28	Rabbit	#P17931	3958

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-3/LGALS3 antibody recognizes endogenous levels of total galectin-3/LGALS3 protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human galectin-3/LGALS3 protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	<p>Galectins are a family of β-galactose binding proteins that are characterized by an affinity for poly-N-acetyllactosamine-enriched glycoconjugates and a 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).</p> <p>Galectin-3/LGALS3 is involved in several diverse biological functions. Galectin-3/LGALS3 binds IgE (8). Galectin-3/LGALS3 is an unusual protein in that it can be found both extracellularly and intracellularly. Intracellularly, Galectin-3/LGALS3 can localize to the cytoplasm, nucleus, or both, depending on cell type and experimental conditions. Nuclear Galectin-3/LGALS3 has been identified as a pre-mRNA splicing factor (9). Galectin-3/LGALS3 production has been shown to increase during inflammation and in obesity, and the protein itself can have an inflammatory effect under certain conditions (10). Galectin-3/LGALS3 forms a complex with $\alpha 3$, $\beta 1$ integrin to act as a surface receptor on endothelial cells for the NG2 proteoglycan, which triggers cell motility and angiogenesis (11). In addition to these functions, Galectin-3/LGALS3 is also a required factor for the terminal differentiation of epithelial cells (12).</p>	
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. Platzer, B. et al. (2011) <i>Immunol Lett</i> 141, 36-44. 9. Haudek, K.C. et al. (2010) <i>Biochim Biophys Acta</i> 1800, 181-9. 10. Pang, J. et al. (2013) <i>PLoS One</i> 8, e57915. 11. Fukushi, J. et al. (2004) <i>Mol Biol Cell</i> 15, 3580-90. 12. Hikita, C. et al. (2000) <i>J Cell Biol</i> 151, 1235-46. 	

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	WB: Western Blotting

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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