## ୁଟ୍ସ୍ Galectin-3/LGALS3 Antibody



<b>Cell Signaling</b>
TECHNOLOGY

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

Applications: W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 28	Source/Isotype: Rabbit	<b>UniProt ID:</b> #P17931	Entrez-Gene Id: 3958		
Product Usage Information		<b>Application</b> 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/Sen	sitivity	Galectin-3/LGALS3 antibody recognizes endogenous levels of total galectin-3/LGALS3 protein.						
Source / Purific	ation	residues near the ami	no terminus of hum	e produced by immunizing animals with a synthetic peptide corresponding to terminus of human galectin-3/LGALS3 protein. Antibodies are purified by finity chromatography.				
Background		Galectins are a family of $\beta$ -galactose binding proteins that are characterized by an affinity for poly- 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).						
		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).						
Background References 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. (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 Reactiv	vitv	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	-	IMPORTANT: For west	stern blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X 0 at 4°C with gentle shaking, overnight.					
Applications Ke	ey	W: Western Blotting						
Cross-Reactivit	у Кеу	H: Human M: Mouse R: Rat						
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