Cell Signaling 85 Store at -20C Galectin-3/LGALS3 (D4I2R) XP® Rabbit mAb ΤΕСΗΝΟΙΟ**ΘΥ**® Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324) Web: info@cellsignal.com cellsignal.com 3 Trask Lane | Danvers | Massachusetts | 01923 | USA For Research Use Only. Not for Use in Diagnostic Procedures. Entrez-Gene Id: **Applications:** Reactivity: Sensitivity: MW (kDa): Source/Isotype: UniProt ID: WB, IP, IHC-P, IF-IC н Endogenous 28 Rabbit IgG #P17931 3958 Product Usage Application Dilution Information 1:1000 Western Blotting Immunoprecipitation 1:100 Immunohistochemistry (Paraffin) 1:300 - 1:1200 Immunofluorescence (Immunocytochemistry) 1:400 - 1:1600 Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than Storage 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. For a carrier free (BSA and azide free) version of this product see product #70310. Galectin-3/LGALS3 (D4I2R) XP® Rabbit mAbrecognizes endogenous levels of total Galectin-3/LGALS3 Specificity / Sensitivity protein. Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human Galectin-3/LGALS3 protein. Galectins are a family of β-galactose binding proteins that are characterized by an affinity for poly-N-Background 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 α 3. β 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). 1. Barondes, S.H. et al. (1994) Cell 76, 597-8. **Background References** 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. Platzer, B. et al. (2011) Immunol Lett 141, 36-44. 9. Haudek, K.C. et al. (2010) Biochim Biophys Acta 1800, 181-9. 10. Pang, J. et al. (2013) PLoS One 8, e57915. 11. Fukushi, J. et al. (2004) Mol Biol Cell 15, 3580-90. 12. Hikita, C. et al. (2000) J Cell Biol 151, 1235-46. **Species Reactivity** Species reactivity is determined by testing in at least one approved application (e.g., western blot).

3/23/24, 1:27 PM	Galectin-3/LGALS3 (D4I2R) XP® Rabbit mAb (#87985) Datasheet Without Images Cell Signaling Technology
Applications Key	WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry)
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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