

#40103 Store at -20°C

## Galectin-1/LGALS1 (8A12) Mouse mAb



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IHC-P	H	Endogenous	15	Mouse IgG1	#P09382	3956

### Product Usage Information

#### Application

Western Blotting  
Immunohistochemistry (Paraffin)

#### Dilution

1:1000  
1:200

### Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 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 #88084.

### Specificity / Sensitivity

Galectin-1/LGALS1 (8A12) Mouse mAb recognizes endogenous levels of total galectin-1 protein.

### Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein specific to human galectin-1 protein.

### Background

Galectins are a family of  $\beta$ -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 Br le, 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

**WB:** Western Blotting **IHC-P:** Immunohistochemistry (Paraffin)

### 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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