

Product datasheet for **DM3545P**

Lgals1 Rat Monoclonal Antibody [Clone ID: 9J26]

Product data:

Product Type:	Primary Antibodies
Clone Name:	9J26
Applications:	IHC, WB
Recommended Dilution:	Western Blot (1/500-1/1000). Immunohistochemistry on Frozen Sections (1/50-1/200).
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2
Clonality:	Monoclonal
Immunogen:	Purified Recombinant Mouse Galectin-1
Specificity:	This antibody detects Mouse Galectin-1. Other species not tested.
Formulation:	0.2 µm filtered solution in PBS without preservatives or stabilizers State: Purified State: Lyophilized purified IgG fraction from Cell Culture Supernatant
Reconstitution Method:	Restore with 200 µl sterile PBS and the final concentration is 500 µg/ml.
Purification:	Protein A/G Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Prior to reconstitution store at -70°C. Following reconstitution store the antibody (in aliquots) at -20°C for 6 months. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	lectin, galactose binding, soluble 1
Database Link:	Entrez Gene 16852 Mouse P16045



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Background:

The galectins are a family of beta-galactoside-binding proteins implicated in modulating cell-cell and cell-matrix interactions. Galectin 1 may act as an autocrine negative growth factor that regulates cell proliferation. It also may regulate cell apoptosis and cell differentiation. It binds beta-galactoside, CD45, CD3 and CD4.

Galectins contain either one or two carbohydrate recognition domains (CRR) which mediate recognition of N-acetyl-lactosamine-containing glycoproteins. Some galectins exist in multiple isoforms due to alternative splicing. Individual galectins differ in their tissue distribution and in their carbohydrate-binding specificities. Galectin 1 inhibits CD45 protein phosphatase activity and therefore the dephosphorylation of Lyn kinase. It is found in cardiac, smooth, and skeletal muscle, neurons, thymus, kidney, placenta and hematopoietic cells.

Synonyms:

LGALS1, Galectin1, Lectin galactoside-binding soluble 1, Beta-galactoside-binding lectin L-14-I, Lactose-binding lectin 1, S-Lac lectin 1, Galaptin, 14 kDa lectin, HPL, HBL, MAPK-activating protein PM12