

Mouse Galectin 1 (GAL1) ELISA Kit-Sandwich

Cat. No.: EK5F573

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Galectin 1 (GAL1) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse GAL1 in serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids using a Sandwich ELISA method. For research use only.

Specifications

Assay Type	ELISA-Sandwich
Specificity	The assay kit is specific for Mouse Galectin 1 (GAL1).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	0.17-10 ng/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 12%
Assay Time	Around 90 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids.

Target Information

Galectin-1 is a lectin that binds to beta-galactoside and a broad spectrum of complex carbohydrates. It is involved in regulating apoptosis, cell proliferation, and cell differentiation. Galectin-1 inhibits the activity of CD45 protein phosphatase, thereby preventing the dephosphorylation of Lyn kinase. It is a potent inducer of T-cell apoptosis and plays a negative role in the differentiation of Th17 cells through the activation of the CD69 receptor. In mice, Galectin-1 has numerous biological functions, including immune regulation, inflammatory response, tumor progression, neurodevelopment, and defense against viral infections. Research indicates that Galectin-1-deficient mice experience more severe intestinal inflammation in a dextran sulfate sodium (DSS)-induced colitis model. This is linked to alterations in the Th17/Th1 balance and a reduction in the number of Foxp3+ regulatory T cells.

Target/Biomarker	Mouse GAL1
Target Synonym	LGALS1; GBP; HLBP14; Galaptin; Lectin;Galactoside-Binding Soluble 1; 14 kDa laminin-binding protein; Lactose-binding lectin 1; Putative MAPK-activating protein PM1

2; S-Lac lectin

Gene ID [16852](#)

UniProt ID [P16045](#)

Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

Reference

Fernandez-Perez, Raquel *et al.* "Enhanced Susceptibility of Galectin-1 Deficient Mice to Experimental Colitis." *Frontiers in immunology* vol. 12 687443. 28 Jun. 2021.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.