

Anti-Mouse/Rat Galectin 1 Antibody [PSH21-51] - BSA and Azide free (Capture)

HA724222



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Mouse, Rat
Applications:	ELISA(Cap)
Clone number:	PSH21-51

Description: Galectin-1 is a protein that in humans is encoded by the LGALS1 gene. 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. Galectin-1 expression in Hodgkin Lymphoma has also been shown to mediate immunosuppression of CD8+ T-cells. It has been linked to the inflammatory process in HIV individuals, and some research suggest that Gal-1 could be related to the HIV-1 latency.

Immunogen: Recombinant protein within Recombinant Mouse Galectin 1 aa 2-135 (HA211247).

Positive control: Recombinant Mouse Galectin 1 protein (HA211247).

Subcellular location: Secreted, extracellular space, extracellular matrix, Cytoplasm.

Database links: SwissProt: P16045 Mouse | P11762 Rat

Recommended Dilutions:

ELISA(Cap) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH21-52] to Mouse/Rat Galectin 1 antibody (Detector) (HA724223) and Recombinant Mouse Galectin 1 protein (HA211247) as the standard. The reference range value is 62.5-8,000 pg/mL.

Storage Buffer: 1*PBS (pH7.4).

Storage Instruction: Store at 2-8°C. Avoid freeze.

Purity: Protein A affinity purified.

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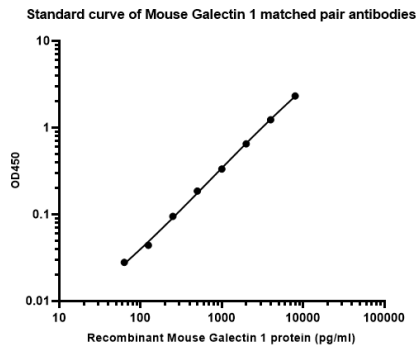
Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Sandwich ELISA analysis of Mouse Galectin 1 matched pair antibodies

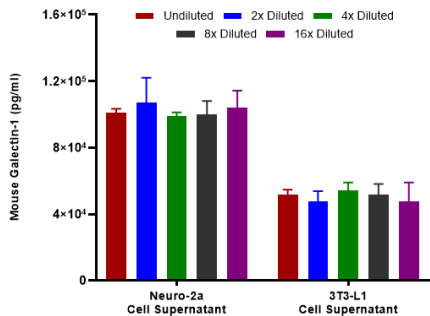
Capture: HA724222, Mouse/Rat Galectin 1 Rabbit mAb [PSH21-51]

Detector: HA724223, Mouse/Rat Galectin 1 Rabbit mAb [PSH21-52]



Elisa assay was performed by coating wells of a 96-well plate with 100 μ l per well of capture antibody (HA724222) diluted in carbonate/bicarbonate buffer, at a concentration of 2ug/ml overnight at 4 $^{\circ}$ C. Wells of the plate were washed, blocked with 150 μ l 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted Recombinant Mouse Galectin 1 protein (HA211247) starting from 8000 pg/ml to 0 pg/ml and detect antibody (HA724223, Biotin, 0.2 μ g/ml) for 1 hour at 30 $^{\circ}$ C with shaking. Then the plate was washed and incubated with 100 μ l per well of SA-HRP for 0.5 hour at 30 $^{\circ}$ C with shaking. Detection was performed using an Ultra TMB Substrate for 10 minutes at room temperature in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

Fig2: Interpolated concentrations of native Galectin-1 in mouse samples.



Capture: HA724222, Mouse/Rat Galectin 1 Rabbit mAb [PSH21-51]

Detector: HA724223, Mouse/Rat Galectin 1 Rabbit mAb [PSH21-52]

Interpolated concentration of native Galectin-1 was measured in duplicate at different sample concentrations. The interpolated dilution factor corrected values were plotted (mean $\pm$ SD, n=2). The mean Galectin-1 concentration was determined to be 102,207 pg/mL in Neuro-2a and 50,656 pg/ml in 3T3-L1 cell supernatant.

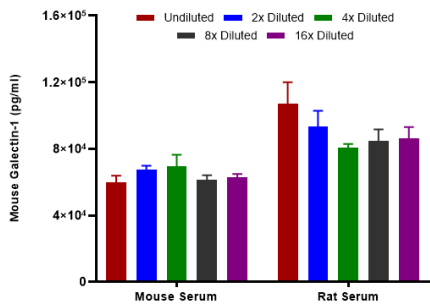


Fig3: Interpolated concentrations of native Galectin-1 in mouse and rat samples.

Capture: HA724222, Mouse/Rat Galectin 1 Rabbit mAb [PSH21-51]

Detector: HA724223, Mouse/Rat Galectin 1 Rabbit mAb [PSH21-52]

Interpolated concentration of native Galectin-1 was measured in duplicate at different sample concentrations. The interpolated dilution factor corrected values were plotted (mean +/- SD, n=2). The mean Galectin-1 concentration was determined to be 64,388 pg/mL in mouse serum and 90,404 pg/ml in rat serum.

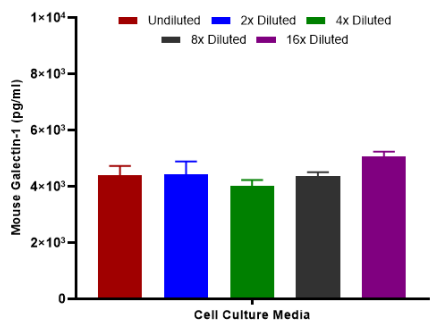


Fig4: Interpolated concentrations of spiked Galectin-1 in cell culture media samples.

Capture: HA724222, Mouse/Rat Galectin 1 Rabbit mAb [PSH21-51]

Detector: HA724223, Mouse/Rat Galectin 1 Rabbit mAb [PSH21-52]

The concentrations of Galectin-1 were measured in duplicates, interpolated from the Galectin-1 standard curves and corrected for sample dilution. Diluted samples are as follows: 50% cell culture media with FBS. The interpolated dilution factor corrected values are plotted (mean +/- SD, n=2).

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Fryk E et al. Galectin-1 in Obesity and Type 2 Diabetes. *Metabolites*. 2022 Sep
2. Yu X et al. Galectin-1: A Traditionally Immunosuppressive Protein Displays Context-Dependent Capacities. *Int J Mol Sci*. 2023 Mar

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