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Galectin 3 ELISA Kit



Image



Overview

Quantity:	96 tests
Target:	Galectin 3 (LGALS3)
Binding Specificity:	AA 2-264
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse Galectin-3/LGALS3
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli
	Immunogen sequence: A2-I264
Specificity:	Expression system for standard: E.coli
	Immunogen sequence: A2-I264
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<10pg/mL
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl
Target Details	
Target:	Galectin 3 (LGALS3)
Alternative Name:	LGALS3 (LGALS3 Products)
Target Type:	Chemical
Background:	Background: Galectin-3(GAL3), also known as LGALS3, MAC2 or GALBP, is a member of the lectin family, of which 14 mammalian galectins have been identified. Galectin-3 is encoded by a single gene, LGALS3, located on chromosome 14, locus q21â€"q22. It is expressed in the nucleus, cytoplasm, mitochondrion, cell surface, and extracellular space. Studies have also shown that the expression of galectin-3 is implicated in a variety of processes associated with heart failure, including myofibroblast proliferation, fibrogenesis, tissue repair, inflammation, and Ventricular remodeling. Galectin-3 is expressed in various tissues and organs, but is significantly absent in normal hepatocytes. Synonyms: Galectin ,Lgals3 ,mCG_6908 , Full Gene Name: Galectin
Gene ID:	16854
UniProt:	Q8C253
Pathways:	RTK Signaling
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Plate:	Pre-coated
Protocol:	mouse Galectin-3 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for Galectin-3 has been precoated onto 96-well plates. Standards(E.coli, A2-I264) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Galectin-3 is added

Application Details

subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase
Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP
substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to
produce a blue color product that changed into yellow after adding acidic stop solution. The
density of yellow is proportional to the mouse Galectin-3 amount of sample captured in plate.

Assay Procedure:

Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL mouse Galectin-3 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse Galectin-3 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 850, Standard deviation: 37.4, CV(%): 4.4
- Sample 2: n=16, Mean(pg/ml): 1347, Standard deviation: 66, CV(%): 4.9
- Sample 3: n=16, Mean(pg/ml): 2932, Standard deviation: 161.3, CV(%): 5.5,
- Sample 1: n=24, Mean(pg/ml): 795, Standard deviation: 54.06, CV(%): 6.8
- Sample 2: n=24, Mean(pg/ml): 1046, Standard deviation: 99.83, CV(%): 7.1
- Sample 3: n=24, Mean(pg/ml): 2758, Standard deviation: 201.3, CV(%): 7.3

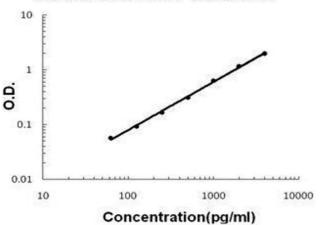
Restrictions:

For Research Use only

Handling

Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months

Mouse Galectin-3 ELISA Kit



ELISA

Image 1. Mouse Galectin-3/LGALS3 PicoKine ELISA Kit standard curve