

Datasheet for ABIN1889420

Galectin 2 ELISA Kit**1** Image[Go to Product page](#)

Overview

Quantity:	96 tests
Target:	Galectin 2 (LGALS2)
Binding Specificity:	AA 1-132
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10.000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Galectin-2
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: M1-E132
Specificity:	Expression system for standard: E.coli Immunogen sequence: M1-E132
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 2 (LGALS2)
Alternative Name:	LGALS2 (LGALS2 Products)
Background:	<p>Protein Function: This protein binds beta-galactoside. Its physiological function is not yet known.</p> <p>Background: Galectin-2 is a protein that in humans is encoded by the LGALS2 gene. It is mapped to 22q13.1. The protein encoded by this gene is a soluble beta-galactoside binding lectin. The encoded protein is found as a homodimer and can bind to lymphotoxin-alpha. It has been found that a single-nucleotide polymorphism in Galectin-2 is significantly associated with susceptibility to myocardial infarction. This genetic substitution affects the transcriptional level of Galectin-2 in vitro, potentially leading to altered secretion of LTA, to which Galectin-2 binds, which would then affect the degree of inflammation.</p> <p>Synonyms: Galectin-2,Gal-2,Beta-galactoside-binding lectin L-14-II,HL14,Lactose-binding lectin 2,S-Lac lectin 2,LGALS2,</p> <p>Full Gene Name: Galectin-2</p>
Gene ID:	3957
UniProt:	P05162

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.
Comment:	Sequence similarities: Contains 1 galectin domain.
Plate:	Pre-coated
Protocol:	human Galectin-2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Galectin-2 has been precoated onto 96-well plates. Standards(E.coli, M1-E132) and test samples are added to the

Application Details

wells, a biotinylated detection polyclonal antibody from goat specific for Galectin-2 is added 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 human Galectin-2 amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL human Galectin-2 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 human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human Galectin-2 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(ng/ml): 1.56, Standard deviation: 0.1, CV(%): 6.4
- Sample 2: n=16, Mean(ng/ml): 3.62, Standard deviation: 0.19, CV(%): 5.2
- Sample 3: n=16, Mean(ng/ml): 6.85, Standard deviation: 0.39, CV(%): 5.7,
- Sample 1: n=24, Mean(ng/ml): 1.48, Standard deviation: 0.13, CV(%): 8.8
- Sample 2: n=24, Mean(ng/ml): 4.12, Standard deviation: 0.3, CV(%): 7.3
- Sample 3: n=24, Mean(ng/ml): 6.54, Standard deviation: 0.49, CV(%): 7.5

Restrictions: For Research Use only

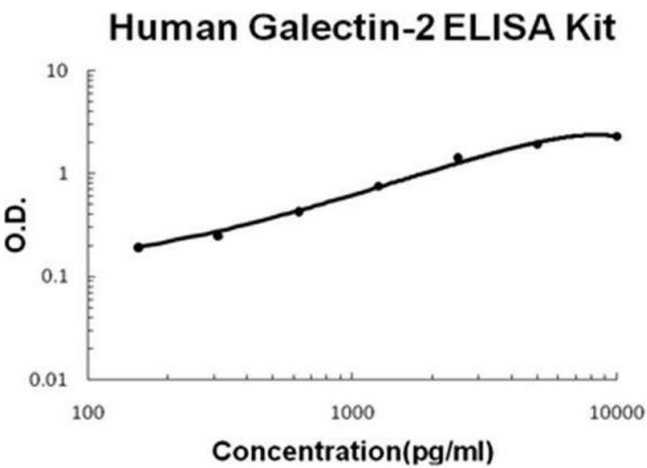
Handling

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



ELISA

Image 1. Human Galectin-2 PicoKine ELISA Kit standard curve