Datasheet for ABIN1672900

Galectin 9 ELISA Kit

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Overview

Quantity:	96 tests
Target:	Galectin 9 (LGALS9)
Binding Specificity:	AA 1-355
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	93.8-6000 pg/mL
Minimum Detection Limit:	93.8 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Galectin-9
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-T355
Specificity:	Expression system for standard: E.coli Immunogen sequence: M1-T355
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 9 (LGALS9)
Alternative Name:	LGALS9 (LGALS9 Products)
Background:	Protein Function: Binds galactosides. Has high affinity for the Forssman pentasaccharide. May play a role in thymocyte-epithelial interactions relevant to the biology of the thymus. Inhibits cell proliferation. It is a ligand for HAVCR2/TIM3. Induces T-helper type 1 lymphocyte (Th1) death. Isoform Short acts as an eosinophil chemoattractant. . Background: Galectin-9, also called HUAT or LGALS9A is a protein that in humans is encoded by the LGALS9 gene. This gene is mapped to 17q11.2. The galectins are a family of beta-galactoside-binding proteins implicated in modulating cell-cell and cell-matrix interactions. The protein encoded by this gene is an S-type lectin. It is overexpressed in Hodgkin's disease tissue and might participate in the interaction between the H&RS cells with their surrounding cells and might thus play a role in the pathogenesis of this disease and/or its associated immunodeficiency. The protein has N- and C- terminal carbohydrate-binding domains connected by a link peptide. Synonyms: Galectin-9,Gal-9,Ecalectin,Tumor antigen HOM-HD-21,LGALS9, Full Gene Name: Galectin-9 Cellular Localisation: Cytoplasm . Secreted . May also be secreted by a non-classical secretory pathway..
Gene ID:	3965
UniProt:	O00182

Application Details

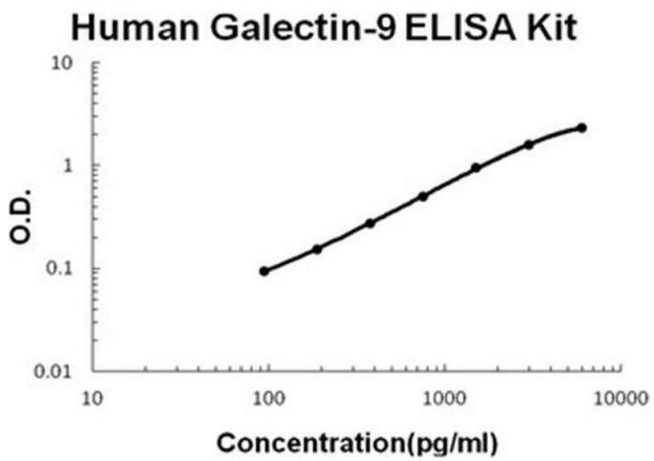
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Contains 2 galectin domains. Tissue Specificity: Peripheral blood leukocytes and lymphatic tissues. Overexpressed in

Application Details

	Hodgkin disease tissue.
Plate:	Pre-coated
Protocol:	human Galectin-9 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Galectin-9 has been precoated onto 96-well plates. Standards(E.coli, M1-T355) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Galectin-9 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-9 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 6000pg/mL, 3000pg/mL, 1500pg/mL, 750pg/mL, 375pg/mL, 187.5pg/mL, 93.7pg/m human Galectin-9 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-9 standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 526, Standard deviation: 23.67, CV(%): 4.5 • Sample 2: n=16, Mean(pg/ml): 2335, Standard deviation: 91.07, CV(%): 3.9 • Sample 3: n=16, Mean(pg/ml): 4518, Standard deviation: 189.8, CV(%): 4.2, • Sample 1: n=24, Mean(pg/ml): 521, Standard deviation: 38.03, CV(%): 7.3 • Sample 2: n=24, Mean(pg/ml): 2357, Standard deviation: 143.8, CV(%): 6.1 • Sample 3: n=24, Mean(pg/ml): 4526, Standard deviation: 294.2, CV(%): 6.5
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-9 PicoKine ELISA Kit standard curve