

Datasheet for ABIN1889428
LGALS7 ELISA Kit[Go to Product page](#)

1 Image

Overview

Quantity:	96 tests
Target:	LGALS7
Binding Specificity:	AA 2-136
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-7
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: S2-F136
Specificity:	Expression system for standard: E.coli Immunogen sequence: S2-F136
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:	LGALS7
Alternative Name:	LGALS7 (LGALS7 Products)
Background:	<p>Protein Function: Could be involved in cell-cell and/or cell-matrix interactions necessary for normal growth control. Pro-apoptotic protein that functions intracellularly upstream of JNK activation and cytochrome c release. .</p> <p>Background: Galectin-7, also known as GAL7, is a protein that in humans is encoded by the LGALS7 gene. This gene is mapped to 19q13.2. Galectins belong to a family of related beta-galactoside-binding lectins, also referred to as S-type or S-Lac lectins. Members of this family have been implicated in a variety of functions, including growth regulation, cell adhesion, migration, neoplastic transformation, and immune responses. Differential and in situ hybridizations indicate that this lectin is specifically expressed in keratinocytes. It has been found that expression of Galectin-7 was markedly upregulated in corneal epithelium after injury and that exogenous galectin-7 stimulated reepithelialization of corneal wounds.</p> <p>Synonyms: Galectin-7,Gal-7,HKL-14,PI7,p53-induced gene 1 protein,LGALS7,PIG1,LGALS7B,</p> <p>Full Gene Name: Galectin-7</p> <p>Cellular Localisation: Cytoplasm . Nucleus . Secreted . May be secreted by a non-classical secretory pathway.</p>
Gene ID:	653499
UniProt:	P47929

Application Details

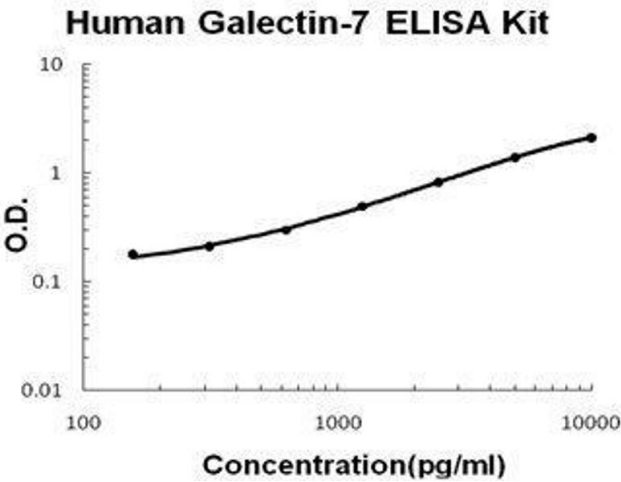
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	<p>Sequence similarities: Contains 1 galectin domain.</p> <p>Tissue Specificity: Mainly expressed in stratified squamous epithelium.</p>

Application Details

Plate:	Pre-coated
Protocol:	human Galectin-7 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Galectin-7 has been precoated onto 96-well plates. Standards(E.coli, S2-F136) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Galectin-7 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-7 amount of sample captured in plate.
Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(pg/ml): 1028, Standard deviation: 48, CV(%): 4.7• Sample 2: n=16, Mean(pg/ml): 4823, Standard deviation: 255.6, CV(%): 5.3• Sample 3: n=16, Mean(pg/ml): 6852, Standard deviation: 260.4, CV(%): 3.8,• Sample 1: n=24, Mean(pg/ml): 1580, Standard deviation: 118.5, CV(%): 7.5• Sample 2: n=24, Mean(pg/ml): 4533, Standard deviation: 389.83, CV(%): 8.6• Sample 3: n=24, Mean(pg/ml): 6795, Standard deviation: 285.39, CV(%): 4.2
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-7 PicoKine ELISA Kit standard curve