

Datasheet for ABIN1889417

GAL4 ELISA Kit[Go to Product page](#)**1** Image

Overview

| | |
|--------------------------|------------------|
| Quantity: | 96 tests |
| Target: | GAL4 (LGALS4) |
| Binding Specificity: | AA 2-323 |
| 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-4 |
| 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-I323 |
| Specificity: | Expression system for standard: E.coli Immunogen sequence: A2-I323 |
| 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: GAL4 (LGALS4)

Alternative Name: LGALS4 ([LGALS4 Products](#))

Background: Protein Function: Galectin that binds lactose and a related range of sugars. May be involved in the assembly of adherens junctions.

Background: Galectin-4, also known as LGALS4 or GAL4, is a protein that in humans is encoded by the LGALS4 gene. It is mapped to 19q13.2. Galectins are a family of animal lectins defined by an affinity for beta-galactoside-containing saccharides and by shared sequence elements. Galectin-4 is expressed as a 38-kD protein in the human colon adenocarcinoma T84 cell line. Galectin-4 is an S-type lectin that is strongly underexpressed in colorectal cancer, and this gene plays a role in cell adhesion. It has been found that decreased Galectin-4 expression occurs early in colorectal carcinogenesis.

Synonyms: Galectin-4,Gal-4,Antigen NY-CO-27,L-36 lactose-binding protein,L36LBP,Lactose-binding lectin 4,LGALS4,

Full Gene Name: Galectin-4

Gene ID: 3960

UniProt: [P56470](#)

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.

Plate: Pre-coated

Protocol: human Galectin-4 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Galectin-4 has been precoated onto 96-well plates. Standards(E.coli, A2-I323) and test samples are added to the

Application Details

wells, a biotinylated detection polyclonal antibody from goat specific for Galectin-4 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-4 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-4 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-4 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(ng/ml): 0.48, Standard deviation: 0.02, CV(%): 4.2
- Sample 2: n=16, Mean(ng/ml): 3.64, Standard deviation: 0.14, CV(%): 3.8
- Sample 3: n=16, Mean(ng/ml): 6.25, Standard deviation: 0.35, CV(%): 5.6
- Sample 1: n=24, Mean(ng/ml): 0.51, Standard deviation: 0.03, CV(%): 5.9
- Sample 2: n=24, Mean(ng/ml): 4.02, Standard deviation: 0.19, CV(%): 4.7
- Sample 3: n=24, Mean(ng/ml): 6.93, Standard deviation: 0.43, CV(%): 6.2

Restrictions: For Research Use only

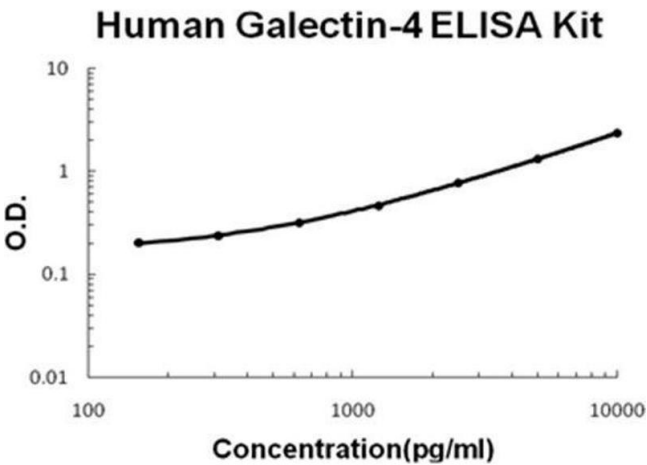
Handling

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-4 PicoKine ELISA Kit standard curve