Human Galectin-12 (LGALS12) ELISA Kit

Catalog No: #EK10103

Package Size: #EK10103-1 48T #EK10103-2 96T

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Description

Product Name	Human Galectin-12 (LGALS12) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	GALECTIN-12; GRIP1; galectin 12
Accession No.	Q96DT0
Uniprot	Q96DT0
GeneID	85329;
Storage	The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).

Application Details

Detect Range:15.6-1000 pg/mL

Sensitivity:6.5 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate LGALS12 in samples. An antibody specific for LGALS12 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLGALS12 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LGALS12 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of LGALS12 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Galectins constitute a family of proteins that bind to β-galactoside residues and have diverse physiological functions. Report on the identification of a galectin-like molecule, galectin-12, in a human adipose tissue cDNA library. The protein contained two potential carbohydrate-recognition domains with the second carbohydrate-recognition domain being less conserved compared with other galectins.

Galectin-12 mRNA was predominantly expressed in adipose tissue of human and mouse and in differentiated 3T3-L1 adipocytes. Caloric restriction and treatment of obese animals with troglitazone increased galectin-12 mRNA levels and decreased the average size of the cells in adipose tissue.

Note: This product is for in vitro research use only