

Rat Galectin-3 (LGALS3) ELISA Kit

Catalog No: #EK10100



Package Size: #EK10100-1 48T #EK10100-2 96T

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Description

Product Name	Rat Galectin-3 (LGALS3) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	CBP35; GAL3; GALBP; GALIG; LGALS2; MAC2; IgE-binding protein MAC-2 antigen carbohydrate-binding protein 35 galactose-specific lectin 3 galectin 3 galectin-3 internal laminin-binding protein
Accession No.	P47845
Uniprot	P47845
GeneID	100009187;
Storage	<p>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.</p> <p>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).</p>

Application Details

Detect Range:0.156-10 ng/mL
Sensitivity:0.055 ng/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 LGALS3 in samples. An antibody specific for LGALS3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLGALS3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LGALS3 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 LGALS3 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Galectin-3 contains a carboxyl-terminal lectin domain and an amino-terminal non-lectin part consisting primarily of short tandem repeats. It is widely distributed in tissues and found in epithelial cells, fibroblasts, dendritic cells, and inflammatory cells.

In many cell types studied, galectin-3 is present diffusely in the cytoplasm, but is also localized to the nucleus and subcellular structures, such as mitochondria, phagosomes and exosomes, under specific conditions. It is secreted by various cell types, including monocytes, macrophages, and epithelial cells, and the extracellular protein can bind to a large number of different glycoconjugates on the cell surfaces and extracellular matrices.

Note: This product is for in vitro research use only