

Rat Galectin-2 (LGALS2) ELISA Kit

Catalog No: #EK10102



Package Size: #EK10102-1 48T #EK10102-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Rat Galectin-2 (LGALS2) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	HL14; MGC75071; S-Lac lectin 2 beta-galactoside-binding lectin L-14-II galectin 2 lactose-binding lectin 2
Accession No.	Q9Z144
Uniprot	Q9Z144
GeneID	171134;
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:0.312-20 ng/mL

Sensitivity:0.129 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 LGALS2 in samples. An antibody specific for LGALS2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLGALS2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LGALS2 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 LGALS2 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**The galectins constitute a large family of carbohydrate-binding proteins that function in many systems both intracellularly and following secretion.Galectins contain either one or two carbohydrate recognition domains (CRR) which mediate recognition of N-acetyl-lactosamine-containing glycoproteins. Galectin-2, a lectin binding to ?-galactoside, was found to trigger apoptosis of activated T cells and leaves naive or memory T cells unaltered. Cytokine secretion of activated T cells was significantly shifted to the Th2 profile. In vivo experiments showed a significant decrease of bowel inflammation during the course of several days in galectin-2 treated mice featuring DSS-colitis. Furthermore, contact hypersensitivity (CHS) responses were reduced significantly in Galectin-2 treated mice after sensitization to contact allergens.

Note: This product is for in vitro research use only