

Rat Galectin-1 (LGALS1) ELISA Kit

Catalog No: #EK10104



Package Size: #EK10104-1 48T #EK10104-2 96T

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Rat Galectin-1 (LGALS1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	DKFZp686E23103; GAL1; GBP; S-Lac lectin 1 beta-galactoside-binding lectin L-14-I galaptin galectin 1 galectin-1 lactose-binding lectin 1
Accession No.	P11762
Uniprot	P11762
GenID	56646;
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:0.625-40 ng/mL

Sensitivity:0.246 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 LGALS1 in samples. An antibody specific for LGALS1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLGALS1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LGALS1 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 LGALS1 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Galectin-1 is one of the most important lectins to date participating in the malignant tumor development. With more and more data available on its expression in tumors it is already clear that this lectin is an important target for cancer diagnostics and treatment.Its first involvement in cancer was associated with cell adhesion. Later on the lectin was shown to induce apoptosis of activated T-cells, and experiments have confirmed that cancer cells express galectin-1 also to protect themselves from immune response. Latest finding is a participation of galectin-1 in tumor angiogenesis as an angiogenic factor. In most of the cases described, galectin-2 is up-regulated in tumors in comparison to normal tissue. Moreover, the presence of the lectin is associated with metastases and poor prognosis of disease outcome.

Note: This product is for in vitro research use only