Rat X-box-binding protein 1 (XBP1) ELISA Kit

Catalog No: #EK5818

Package Size: #EK5818-1 48T #EK5818-2 96T

Orders: order@signalwayantibody.com
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Description

Product Name	Rat X-box-binding protein 1 (XBP1) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (Rattus norvegicus)
Other Names	TREB5; XBP2;
Accession No.	Q9R1S4
Uniprot	Q9R1S4
GeneID	289754;
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:0.156-10 ng/mL

Sensitivity:0.054 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 XBP1 in samples. An antibody specific for XBP1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyXBP1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for XBP1 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 XBP1 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:Chemokine (C motif) ligand (XCL1) is a small cytokine belonging to the XC chemokine family that is also known as lymphotactin. It is found in high levels in spleen, thymus, intestine and peripheral blood leukocytes, and at lower levels in lung, prostate gland and ovary. it shows little or no expression in colon and testis. Lymphotactin is chemotactic for CD4+ and CD8+ T cells but not for monocytes, and induces a rise in intracellular calcium in peripheral blood lymphocytes.

Cellular sources for XCL1 include activated thymic and peripheral blood CD8 T cells. This chemokine attracts T cells. In humans, XCL1 is closely related to another chemokine called XCL2, whose gene is found at the same locus on chromosome 1. XCL1 induces it chemotactic function by binding to a chemokine receptor called XCR1.

Note: This product is for in vitro research use only