Mouse Signal transducer and activator of transcription 4 (STAT4) ELISA Kit

Catalog No: #EK6674

Package Size: #EK6674-1 48T #EK6674-2 96T

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	Mouse Signal transducer and activator of transcription 4 (STAT4) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	SLEB11; OTTHUMP00000163553
Accession No.	P42228
Uniprot	P42228
GeneID	20849;
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:0.312-20 ng/mL

Sensitivity:0.108 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 STAT4 in samples. An antibody specific for STAT4 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySTAT4 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for STAT4 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 STAT4 bound in the initial step. The color development is stopped and the intensity of the color is measured.Product Overview:STAT4 is phosphorylated in response to interleukin-12 and is essential for IL12 signal transduction. For further information on STATs. STAT4 and STAT1, which both map to chromosome 2q32, may have arisen via a tandem gene duplication. However, STAT1 was expressed ubiquitously, whereas STAT4 was expressed in specific tissues, including spleen, heart, brain, peripheral blood cells, and testis. STAT4 expression was drastically increased in T cells following treatment with a DNA methyltransferase inhibitor. Truncation of methylation sites in the proximal regulatory elements of the STAT4 promoter markedly enhanced transcriptional activity. The N-terminal protein interaction domain (N domain) of STAT4 is required for STAT4 activation after IL12 signaling.

Note: This product is for in vitro research use only