

Rat Signal transducer and activator of transcription 5B (STAT5B) ELISA Kit



Catalog No: #EK6679

Orders: order@signalwayantibody.com

Package Size: #EK6679-1 48T #EK6679-2 96T

Support: tech@signalwayantibody.com

Description

Product Name	Rat Signal transducer and activator of transcription 5B (STAT5B) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Rat (<i>Rattus norvegicus</i>)
Other Names	STAT5; transcription factor STAT5B
Accession No.	P52632
Uniprot	P52632
GeneID	25126;
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:0.116 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 STAT5B in samples. An antibody specific for STAT5B has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySTAT5B present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for STAT5B 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 STAT5B bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Signal transducer and activator of transcription 5B is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators.

This protein mediates the signal transduction triggered by various cell ligands, such as IL2, IL4, CSF1, and different growth hormones. It has been shown to be involved in diverse biological processes, such as TCR signaling, apoptosis, adult mammary gland development, and sexual dimorphism of liver gene expression. This gene was found to fuse to retinoic acid receptor-alpha (RARA) gene in a small subset of acute promyelocytic leukemias (APLL).

Note: This product is for in vitro research use only