

# Human Signal transducer and activator of transcription 6 (STAT6) ELISA Kit



Catalog No: #EK6680

Orders: order@signalwayantibody.com

Package Size: #EK6680-1 48T #EK6680-2 96T

Support: tech@signalwayantibody.com

## Description

Product Name	Human Signal transducer and activator of transcription 6 (STAT6) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	D12S1644; IL-4-STAT; STAT6B; STAT6C; STAT; interleukin4-induced signal transducer and activator of transcription 6 transcription factor IL-4 STAT
Accession No.	P42226
Uniprot	P42226
GeneID	6778;
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:0.128 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 STAT6 in samples. An antibody specific for STAT6 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anySTAT6 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for STAT6 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 STAT6 bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**STAT6 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 plays a central role in exerting IL4 mediated biological responses. It is found to induce the expression of BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL4. Knockout studies in mice suggested the roles of this gene in differentiation of T helper 2 (Th2) cells, expression of cell surface markers, and class switch of immunoglobulins.

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Note: This product is for in vitro research use only