

Human Signal Transducer And Activator Of Transcription 1 (STAT1) ELISA Kit | STAT1 elisa kit

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CATALOG #
AAA330591

REACTIVITY
Human

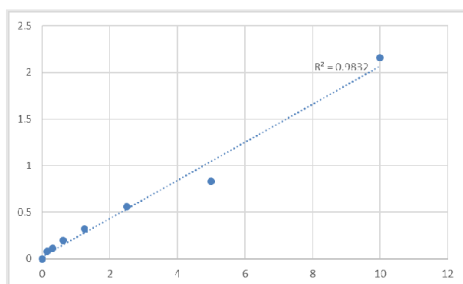
PRODUCT SYNONYMS

Signal Transducer And Activator Of Transcription 1 (STAT1); Human Signal Transducer And Activator Of Transcription 1 (STAT1) ELISA Kit; STAT1; DKFZp686B04100; ISGF-3; STAT91; OTTHUMP00000205845; signal transducer and activator of transcription 1; signal transducer and activator of transcription-1; transcription factor ISGF-3 components p91/p8; STAT1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Signal transducer and activator of transcription 1 (STAT1) ELISA Kit has high sensitivity and excellent specificity for detection of Human STAT1. No significant cross-reactivity or interference between Human STAT1 and analogues was observed.
Sequence Length	750
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Signal transducer and activator of transcription 1 (STAT1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for STAT1 elisa kit	Description: This Human Signal transducer and activator of transcription 1 (STAT1) ELISA Kit employs a two-site sandwich ELISA to quantitate STAT1 in samples. An antibody specific for STAT1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any STAT1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for STAT1 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 STAT1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: STAT1 is a member of the Signal Transducers and Activators of Transcription family of transcription factors. STAT1 is involved in upregulating genes due to a signal by either type I or type II interferons. In response to IFN-gamma; stimulation, STAT1 forms homodimers or heterodimers with STAT3 that bind to the GAS (Interferon-Gamma Activated Sequence) promoter element; in response to either IFN-alpha or IFN-beta stimulation, STAT1 forms a heterodimer with STAT2 that can bind the ISRE (Interferon Stimulated Response Element) promoter element. In either case, binding of the promoter element leads to an increased expression of ISG (Interferon Stimulated Genes).Expression of STAT1 can be induced with diallyl disulfide, a compound in garlic.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6274552
NCBI GeneID	6772
NCBI Accession #	NP_009330.1
NCBI GenBank Nucleotide #	NP_009330.1
UniProt Accession #	P42224
NCBI Official Full Name	signal transducer and activator of transcription 1-alpha/beta isoform alpha
NCBI Official Synonym Full Names	signal transducer and activator of transcription 1
NCBI Official Symbol	STAT1
NCBI Official Synonym Symbols	CANDF7; IMD31A; IMD31B; IMD31C; ISGF-3; STAT91
NCBI Protein Information	signal transducer and activator of transcription 1-alpha/beta
UniProt Protein Name	Signal transducer and activator of transcription 1-alpha/beta
UniProt Gene Name	STAT1
UniProt Entry Name	STAT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.