

Human Transcription factor 4 ELISA Kit | TCF4 elisa kit

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CATALOG #
AAA99673

REACTIVITY
Human

PRODUCT SYNONYMS

Transcription factor 4; Human Transcription factor 4 ELISA Kit; TCF4/Transcription factor 4/TCF-4/SL3-3 enhancer factor 2/SEF-2/Class B basic helix-loop-helix protein 19/bHLHb19/Immunoglobulin transcription factor 2/ITF-2/E2-2/ITF2/PTHS/SEF2/SEF2-1/SEF2-1A/SEF2-1B/bHLHb19; TCF4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of TAT. No significant cross-reactivity or interference between TAT and analogues was observed.
Sequence Length	642
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	78.125-5000pg/ml
Sensitivity	46.875pg/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level TAT were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level TAT were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a TCF4 ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A-not applicable)

X	pg/ml	0	78.125	156.25	312.5	625	1250	2500	5000
Y	OD450	0.004	0.183	0.32	0.614	1.038	1.549	1.903	2.297

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TCF4 elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-TAT antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-TAT antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the TAT amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of TAT can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	50979072
NCBI GeneID	403949
NCBI Accession #	NP_001003268.1
NCBI GenBank Nucleotide #	NM_001003268.1
Molecular Weight	68,355 Da
NCBI Official Full Name	transcription factor 4
NCBI Official Symbol	TCF4
NCBI Official Synonym Symbols	TCF7L2
NCBI Protein Information	transcription factor 4
UniProt Protein Name	Transcription factor 4
UniProt Gene Name	TCF4
UniProt Synonym Gene Names	ITF2; TFE; TCF-4; ITF-2
UniProt Entry Name	ITF2_CANLF

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.

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Online datasheet: <https://stage.aaabiotech.com/tcf4-human-elisa-kits/transcription-factor-4/99673>