

Product datasheet for **CF500005**

STAT4 Mouse Monoclonal Antibody [Clone ID: OTI2A2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2A2
Applications:	IHC, WB
Recommended Dilution:	WB: 1:100, IHC 1:50
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant fragment expressed in E.coli corresponding to amino acids 633-652 of human Stat4
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	85.8 kDa
Gene Name:	Homo sapiens signal transducer and activator of transcription 4 (STAT4), transcript variant 1, mRNA.
Database Link:	NP_003142 Entrez Gene 20849 Mouse Entrez Gene 367264 Rat Entrez Gene 6775 Human Q14765



[View online »](#)

Background:

Stat4 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 is essential for mediating responses to IL12 in lymphocytes, and regulating the differentiation of T helper cells.

Synonyms:

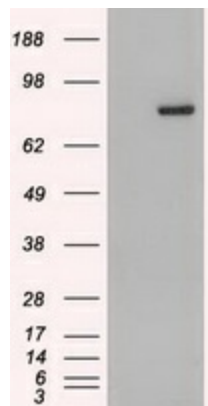
SLEB11

Protein Families:

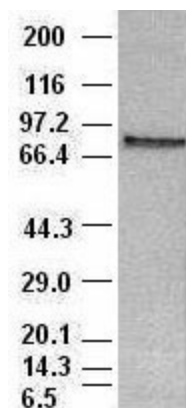
Druggable Genome, Transcription Factors

Protein Pathways:

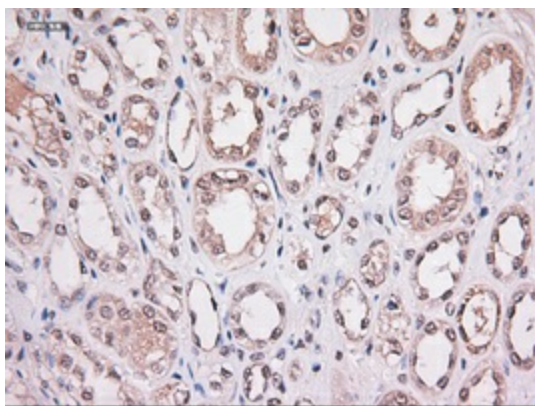
Jak-STAT signaling pathway

Product images:


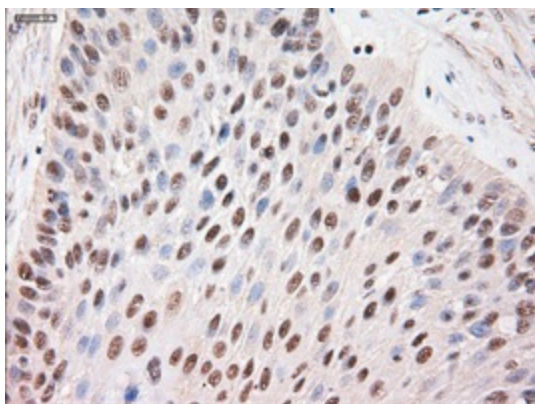
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY Stat4 ([RC206892], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-Stat4. Positive lysates [LY401095] (100ug) and [LC401095] (20ug) can be purchased separately from OriGene.



STAT4 antibody (2A2) at 1:100 dilution + HeLa cell lysate



Immunohistochemical staining of paraffin-embedded kidney within the normal limits using anti-Stat4 ([TA500005]) mouse monoclonal antibody (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min).



Immunohistochemical staining of paraffin-embedded Carcinoma of lung using anti-Stat4 ([TA500005]) mouse monoclonal antibody (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min).