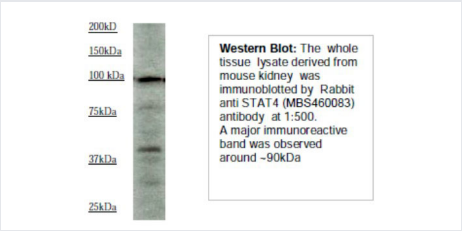
STAT4 Antibody – Rabbit

PRODUCT OVERVIEW

Product Name	STAT4, Antibody
Full Product Name	Rabbit anti STAT4 Polyclonal Antibody
Product Gene Name	anti-STAT4 antibody
Product Synonym Names	Signal transducer and activator of transcription 4 (STAT4)
Host	Rabbit
Species Reactivity	Human, Rat, Mouse, Dog
Form/Format	This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer
Purity/Purification	The Rabbit IgG is purified by Epitope Affinity Purification.
Specificity	This antibody recognizes STAT4 (pY693) with a phosphorylated sites of Tyr693. It does not cross-react with non-phosphospecific peptide.
Preparation and Storage	The antibodies are stable for 12 months from date of receipt when stored at –20°C to –70°C. The antibodies can be stored at 2°C-8°C for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.
Molecular Weight	90 kDa
OMIM	L78440 mRNA
Preparation	A synthetic peptide surrounding to the C-terminus of STAT4 protein from human. This sequence is identical to mouse, rat, chicken, dog and bovine origins.
Positive Control	Mouse kidney
Nuclear Location	Nuclear
Applications Tested/Suitable for anti-STAT4 antibody	ELISA (EIA), Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-STAT4 antibody	WB: 0.1-1 ug/ml ELISA 0.01-0.1 ug/ml IP: 2-5 ug/ml IHC: 1:100 ug/ml Optimal dilutions should be determined by researchers for the specific applications.
Related Product Information for anti-STAT4 antibody	STAT proteins (Signal transducer and activator of transcription) belong to a family of cytoplasmic transcription factors that can be phosphorylated by a lignad binding to its cell surface receptor. Activation of STAT4 induces dimerization, nuclear translocation and DNA binding. STAT4 protein expression is restricted to the thymus, spleen and testis. Both tyrosine and serine residues on STAT4 become phosphorylated in response to IL-12 or IFN-alpha although serine phosphorylation is not required for DNA binding. STAT4 is activated in T-cells in response to the cytokine interleukin-12 (IL-12), and in NK cells by IL-2. STAT4-deficient mice display impaired IL-12 development of Th1 cells and enhanced development of Th2 cells.
Other Notes	Small volumes of anti-STAT4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for STAT4 purchase	MBS460083 is an antibody targeting STAT4. Also known as Rabbit anti STAT4 Polyclonal Antibody. Reactive in Human, Rat, Mouse, Dog. Host: Rabbit.



Western Blot (WB) of anti-STAT4 antibody

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STAT4. It may not necessarily be applicable to this product.

NCBI GI #	167832560
NCBI GeneID	6775
NCBI Accession #	ACA01862.1
UniProt Secondary Accession #	Q96NZ6
UniProt Related Accession #	Q14765
NCBI Official Full Name	STAT4, partial
NCBI Official Synonym Full Names	signal transducer and activator of transcription 4
NCBI Official Symbol	STAT4
NCBI Official Synonym Symbols	SLEB11
UniProt Protein Name	Signal transducer and activator of transcription 4
Protein Family	Signal transducer and activator of transcription
UniProt Gene Name	STAT4
NCBI Protein Information	signal transducer and activator of transcription 4
NCBI Summary for STAT4	The protein encoded by this gene 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. Mutations in this gene may be associated with systemic lupus erythematosus and rheumatoid arthritis. Alternate splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Aug 2011]
UniProt Comments for STAT4	STAT4: transcription factor of the STAT family. Phosphorylated and activated by receptor-associated kinases downstream of many cytokines and growth-factor receptors. Essential for mediating responses to IL12 in lymphocytes, and regulating the differentiation of T helper cells. Protein type: DNA-binding; Transcription factor Chromosomal Location of Human Ortholog: 2q32.2-q32.3 Molecular Function: protein binding Biological Process: JAK-STAT cascade Disease: Systemic Lupus Erythematosus, Susceptibility To, 11
Research Articles on STAT4	**1.** This is the first demonstration of STAT4 acting as a transcriptional repressor in response to IFN-alpha/beta signaling and highlights the unique activity of this cytokine to acutely block the expression of an inflammatory cytokine in human T cells.

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