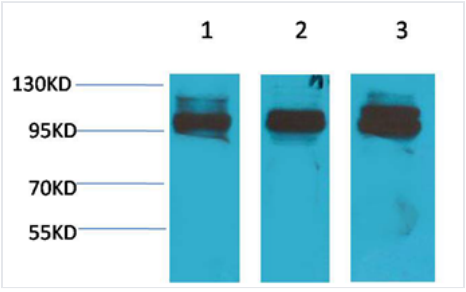
STAT2 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	STAT2, Polyclonal Antibody
Full Product Name	STAT2 Rabbit Polyclonal Antibody
Product Gene Name	anti-STAT2 antibody
Product Synonym Names	ISGF3 antibody; P113 antibody; STAT113 antibody; MGC59816 antibody
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	Human, Rat, Mouse
Form/Format	PBS, pH 7.4, containing 0.02% sodium azide as Preservative and 50% Glycerol.
Specificity	Antibody can detects endogenous STAT2 protein.
Preparation and Storage	Store at-20 degree C for 1 year. Do not aliquot the antibody.
Molecular Weight	98KD
OMIM	600556
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-STAT2 antibody	Western Blot (WB)
Application Notes for anti-STAT2 antibody	WB: 1:500-1,000
Related Product Information for anti-STAT2 antibody	Signal transducer and activator of transcription 2 is a protein that in humans is encoded by the STAT2 gene. Stat2 is rapidly activated by phosphorylation at Tyr690 in response to stimulation by IFN-alpha/beta via associations with receptor-bound Jak kinases.
Other Notes	Small volumes of anti-STAT2 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 STAT2 purchase	MBS8510477 is an antibody targeting STAT2. Also known as STAT2 Rabbit Polyclonal Antibody. Reactive in Human, Rat, Mouse.



Western Blot (WB) of anti-STAT2 antibody
Western blot analysis of 1) K562, 2)Mouse Heart Tissue, 3) Rat Heart Tissue with STAT2 Rabbit pAb E12-456 diluted at 1: 2, 000.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for STAT2. It may not necessarily be applicable to this product.

NCBI GI #	1293920
NCBI GeneID	6773
NCBI Accession #	AAA98760.1
UniProt Secondary Accession #	Q16430; Q16431; Q9UDL4; B4DLC7; G3V2M6
UniProt Related Accession #	P52630
NCBI Official Full Name	Stat2
NCBI Official Synonym Full Names	signal transducer and activator of transcription 2
NCBI Official Symbol	STAT2
NCBI Official Synonym Symbols	P113; IMD44; ISGF-3; STAT113
UniProt Protein Name	Signal transducer and activator of transcription 2
UniProt Synonym Protein Names	p113
Protein Family	Signal transducer and activator of transcription
UniProt Gene Name	STAT2
NCBI Protein Information	signal transducer and activator of transcription 2
NCBI Summary for STAT2	The protein encoded by this gene is a member of the STAT protein family. 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. In response to interferon (IFN), this protein forms a complex with STAT1 and IFN regulatory factor family protein p48 (ISGF3G), in which this protein acts as a transactivator, but lacks the ability to bind DNA directly. Transcription adaptor P300/CBP (EP300/CREBBP) has been shown to interact specifically with this protein, which is thought to be involved in the process of blocking IFN-alpha response by adenovirus. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2010]
UniProt Comments for STAT2	Signal transducer and activator of transcription that mediates signaling by type I IFNs (IFN-alpha and IFN-beta). Following type I IFN binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize, associate with IRF9/ISGF3G to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of interferon stimulated genes, which drive the cell in an antiviral state (PubMed:9020188, PubMed:23391734). Acts as a regulator of mitochondrial fission by modulating the phosphorylation of DNM1L at 'Ser-616' and 'Ser-637' which activate and inactivate the GTPase activity of DNM1L respectively (PubMed:26122121).
Research Articles on STAT2	**1.** mRNA expression of survivin was positively correlated with STAT2 mRNA in psoriasis vulgaris lesion tissues
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