

STAT2 protein

Catalog No :	YD0099
Reactivity :	Human
Applications :	WB;SDS-PAGE
Gene Name :	STAT2
Protein Name :	STAT2 protein
Sequence :	Amino acid: 274-552, with his-MBP tag.
Human Gene Id :	6773
Human Swiss Prot No :	P52630
Mouse Swiss Prot No :	Q9WVL2
Formulation :	Liquid in PBS
Concentration :	SDS-PAGE >90%
Storage Stability :	-20 °C/6 month, -80 °C for long storage
Background :	function: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 ISGF3G/IRF-9 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.,PTM:Tyrosine phosphorylated in response to IFN-alpha.,similarity:Belongs to the transcription factor STAT family.,similarity:Contains 1 SH2 domain.,subcellular location:Translocated into the nucleus upon activation by IFN-alpha/beta.,subunit:Interacts with ISGF3G/IRF-9 in the cytoplasm. Heterodimer with STAT1 upon IFN-alpha/beta induced phosphorylation. Interacts with CRSP2 and CRSP6. Interacts with Simian virus 5 protein V and rabies virus phosphoprotein.,

Function : transcription, regulation of transcription, DNA-dependent, regulation of transcription from RNA polymerase II promoter, intracellular signaling cascade, protein kinase cascade, JAK-STAT cascade, response to virus, regulation of transcription, regulation of RNA metabolic process,

Subcellular Location : Cytoplasm . Nucleus . Translocated into the nucleus upon activation by IFN-alpha/beta. .

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