

## Stat2 Polyclonal Antibody

<b>Catalog No :</b>	YT4442
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IP;IHC;IF;ELISA
<b>Target :</b>	Stat2
<b>Fields :</b>	>>Chemokine signaling pathway;>>Necroptosis;>>Osteoclast differentiation;>>NOD-like receptor signaling pathway;>>C-type lectin receptor signaling pathway;>>JAK-STAT signaling pathway;>>Hepatitis C;>>Hepatitis B;>>Measles;>>Influenza A;>>Human papillomavirus infection;>>Kaposi sarcoma-associated herpesvirus infection;>>Herpes simplex virus 1 infection;>>Epstein-Barr virus infection;>>Coronavirus disease - COVID-19;>>Pathways in cancer
<b>Gene Name :</b>	STAT2
<b>Protein Name :</b>	Signal transducer and activator of transcription 2
<b>Human Gene Id :</b>	6773
<b>Human Swiss Prot No :</b>	P52630
<b>Mouse Swiss Prot No :</b>	Q9WVL2
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human STAT2. AA range:656-705
<b>Specificity :</b>	Stat2 Polyclonal Antibody detects endogenous levels of Stat2 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

**Concentration :** 1 mg/ml

**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

**Observed Band :** 113kD

**Cell Pathway :** Chemokine;Jak\_STAT;

**Background :** 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],

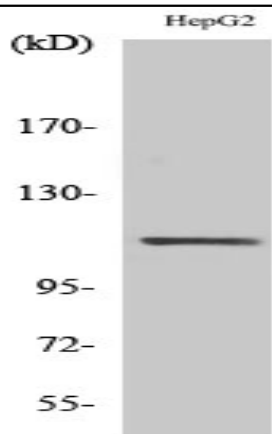
**Function :** function:Signal transducer and activator of transcription that mediates signaling by type I IFNs (IFN-alpha and IFN-beta). Following type I IFN binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated 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 I

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

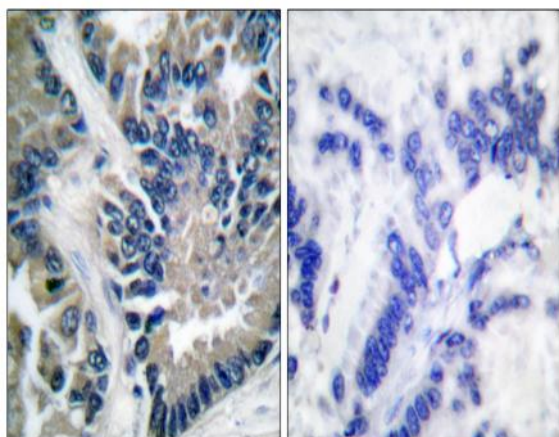
**Expression :** Human small intestine,Lung,

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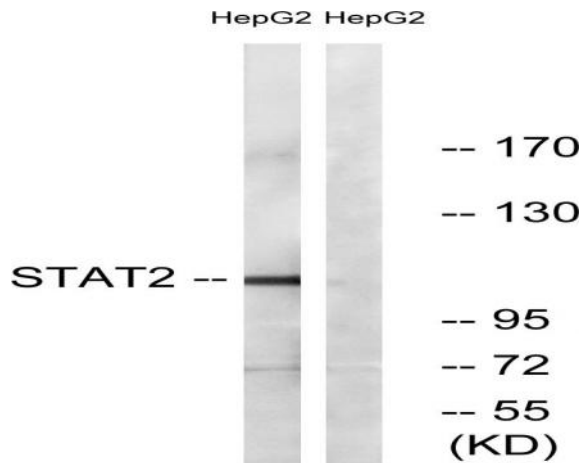
## Products Images



Western Blot analysis of various cells using Stat2 Polyclonal Antibody



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using STAT2 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from HepG2, using STAT2 Antibody. The lane on the right is blocked with the synthesized peptide.