

STAT2 Antibody (C-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS17193**Specification**

STAT2 Antibody (C-Terminus) - Product Information

Application	WB, IHC-P
Primary Accession	P52630
Other Accession	6773
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	97916
Dilution	WB~~1:1000 IHC-P~~N/A

STAT2 Antibody (C-Terminus) - Additional Information**Gene ID** 6773**Other Names**

STAT2, ISGF-3, STAT113, p113

Target/Specificity

human STAT2

Reconstitution & Storage

PBS, pH 7, 1% BSA, 20% Glycerol, 0.01% Thimerosal. Aliquot and freeze at -20° C. Avoid freeze-thaw cycles.

Precautions

STAT2 Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

STAT2 Antibody (C-Terminus) - Protein Information**Name** STAT2**Function**

Signal transducer and activator of transcription that mediates signaling by type I interferons (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:23391734, PubMed:<a href="http://www.uniprot.org/citations/9020188"

target="_blank">9020188). In addition, also has a negative feedback regulatory role in the type I interferon signaling by recruiting USP18 to the type I IFN receptor subunit IFNAR2 thereby mitigating the response to type I IFNs (PubMed:28165510). 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:23391734, PubMed:26122121, PubMed:9020188).

Cellular Location

Cytoplasm. Nucleus Note=Translocated into the nucleus upon activation by IFN-alpha/beta

Volume

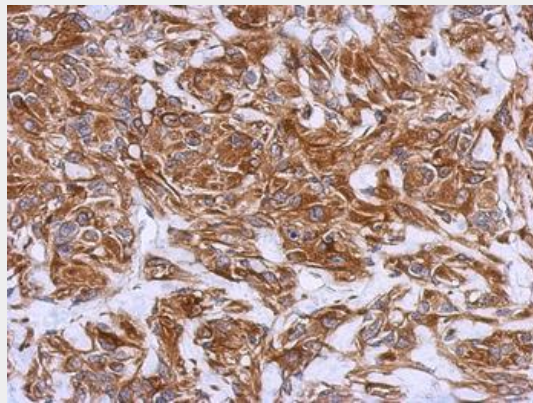
50 µl

STAT2 Antibody (C-Terminus) - Protocols

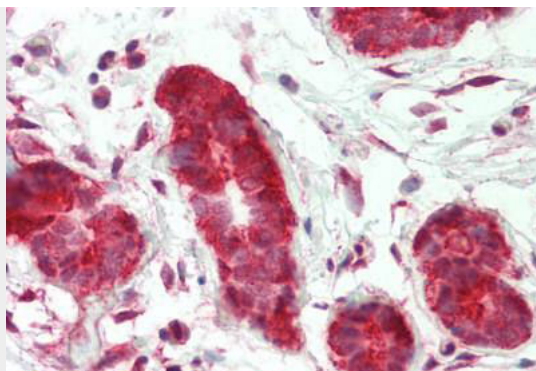
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

STAT2 Antibody (C-Terminus) - Images



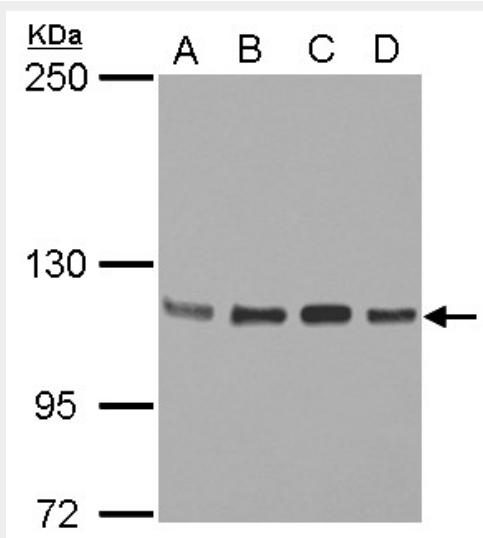
IHC of paraffin-embedded U373 xenograft, using STAT2 antibody at 1:500 dilution.



Human Breast: Formalin-Fixed, Paraffin-Embedded (FFPE)



Human Skin: Formalin-Fixed, Paraffin-Embedded (FFPE)



Sample (30 ug of whole cell lysate) A: Jurkat B: Raji C: K562 D: THP-1 5% SDS PAGE STAT2...

STAT2 Antibody (C-Terminus) - Background

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.

STAT2 Antibody (C-Terminus) - References

Fu X.-Y.,et al.Proc. Natl. Acad. Sci. U.S.A. 89:7840-7843(1992).
Yan R.,et al.Nucleic Acids Res. 23:459-463(1995).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Scherer S.E.,et al.Nature 440:346-351(2006).
Fu X.Y.,et al.Cell 70:323-335(1992).