10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Anti-STAT2 Antibody
Rabbit polyclonal antibody to STAT2
Catalog # AP61443

Specification

Anti-STAT2 Antibody - Product Information

Application	**WB**
Primary Accession	P52630
Other Accession	Q9WVL2
Reactivity	**Human, Mouse, Rat, Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**97916**

Anti-STAT2 Antibody - Additional Information

Gene ID 6773

Other Names
Signal transducer and activator of transcription 2; p113

Target/Specificity
KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human STAT2. The exact sequence is proprietary.

Dilution
WB~~WB (1/500 - 1/1000)

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-STAT2 Antibody - 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).

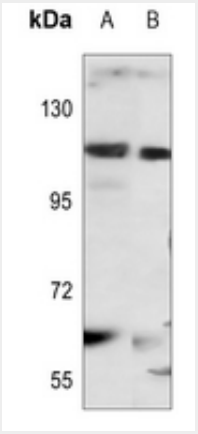
Cellular Location
Cytoplasm. Nucleus Note=Translocated into the nucleus upon activation by IFN-alpha/beta

Anti-STAT2 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-STAT2 Antibody - Images



Western blot analysis of STAT2 expression in mouse muscle (A), rat muscle (B) whole cell lysates.

Anti-STAT2 Antibody - Background

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