

Mouse Stat2 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18940c**Specification**

Mouse Stat2 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	O9WVL2
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	105417
Antigen Region	600-626

Mouse Stat2 Antibody (Center) - Additional Information**Other Names**

Signal transducer and activator of transcription 2, Stat2

Target/Specificity

This Mouse Stat2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 600-626 amino acids from the Central region of mouse Stat2.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Mouse Stat2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Mouse Stat2 Antibody (Center) - 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. In addition, has also 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. 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.

Cellular Location

Cytoplasm {ECO:0000250|UniProtKB:P52630}. Nucleus {ECO:0000250|UniProtKB:P52630}.
Note=Translocated into the nucleus upon activation by IFN-alpha/beta.
{ECO:0000250|UniProtKB:P52630}

Tissue Location

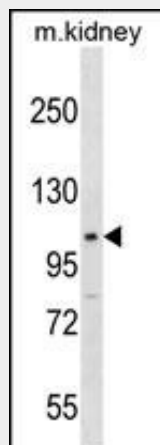
Found in the brain, lung, heart, spleen, liver, kidney, muscle and the testis

Mouse Stat2 Antibody (Center) - 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](#)

Mouse Stat2 Antibody (Center) - Images



Mouse Stat2 Antibody (Center) (Cat. #AP18940c) western blot analysis in mouse kidney tissue lysates (35ug/lane). This demonstrates the Stat2 antibody detected the Stat2 protein (arrow).

Mouse Stat2 Antibody (Center) - Background

Transcription factor that binds to the IFN-stimulated response element (ISRE) and to the GAS element. This multiprotein transcription factor is termed ISGF3.