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Mouse Stat2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP18940c

Specification

Mouse Stat2 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	Q9WVL2
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
E~~Use at an assay dependent concentration.

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, 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. 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}

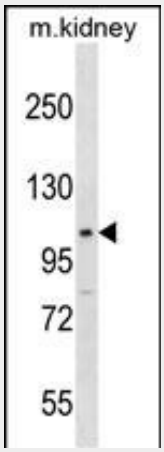
Tissue Location
Found in the brain, lung, heart, spleen, liver, kidney, muscle and the testis

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 Cytomety
- 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.