

Mouse Stat2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP18940c**Specification**

Mouse Stat2 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q9WVL2](#)**Mouse Stat2 Antibody (Center) Blocking Peptide - Additional Information****Other Names**

Signal transducer and activator of transcription 2, Stat2

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse Stat2 Antibody (Center) Blocking Peptide - 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) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Mouse Stat2 Antibody (Center) Blocking Peptide - Images

Mouse Stat2 Antibody (Center) Blocking Peptide - Background

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