

STAT2 polyclonal antibody

Catalog: BS67140

Host: Rabbit

Reactivity: Human,Rat,Mouse

BackGround:

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:9020188, PubMed:23391734).

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 (PubMed:28165510).

Acts as a regulator of mitochondrial fission by modulating the phosphorylation of DNMI1L at 'Ser-616' and 'Ser-637' which activate and inactivate the GTPase activity of DNMI1L respectively (PubMed:26122121, PubMed:23391734, PubMed:9020188).

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 115 kDa

Swiss-Prot:

P52630

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 101% (by SDS-PAGE).

Applications:

WB (1/500 - 1/1000)

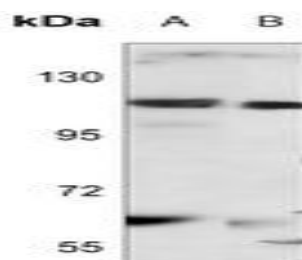
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of STAT2 protein.

DATA:



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

Note:

For research use only, not for use in diagnostic procedure.

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