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STAT2 Rabbit mAb

Catalog # AP76720

Product Information

Application	WB, IHC-P
Primary Accession	Q9WVL2
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	105417

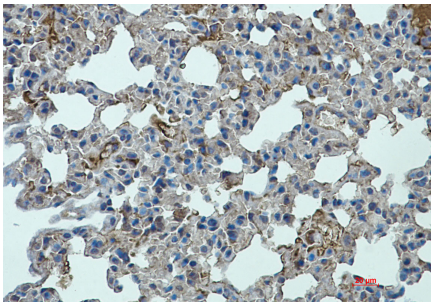
Additional Information

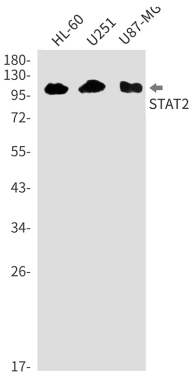
Other Names	Stat2
Dilution	WB~~1/500-1/1000 IHC-P~~N/A
Format	Liquid

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

Images





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