Data Sheet (Cat.No.TMAB-01509)

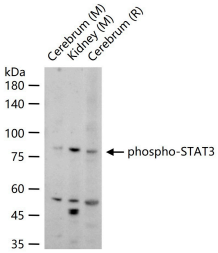
Anti-Phospho-STAT3 (Tyr705) Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse,Rat (predicted:Human)
Molecular Weight:	Theoretical: 85 kDa. Actual: 83 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	25 μg total protein per Lane of various lysates probed with phospho-STAT3 (Tyr705) polyclonal antibody, unconjugated (TMAB-01509) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at RT for 60 min.



Application:	WB
Recommended	WB: 1:500-2000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated Synthesised phosphopeptide: human STAT3 around the phosphorylation site of Tyr705
Antigen Species:	Human
Gene ID:	6774
Uniprot ID:	P40763
Synonyms:	Phospho-Stat3 (Y705);p-Stat3 (Y705);ADMIO;p-Stat3 (Tyr705);HIES;Stat3 (p-Y705);signal transducer and activator of transcription 3 (acute-phase response factor);Stat3 (p-Tyr705);APRF
Biology Area:	STAT family,Transcription factors/regulators,Transcription factors,Surface molecules,STATs, Other factors,SARS Coronavirus,STATs,Intracellular

Research Background

The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key

role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Mutations in this gene are associated with infantile-onset multisystem autoimmune disease and hyper-immunoglobulin E syndrome. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Sep 2015]

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