

Mouse Anti-STAT1, Clone STAT1-79 Monoclonal Antibody, Affinity Purified

Catalog No.:	CMS000	Size: 100 µg/0.2 mL
Description:	STATs (signal transducers and activators of transcription) were originally discovered as two proteins (STAT 1 and 2) involved in IFN-alpha and IFN-gamma signal transduction. Since their initial identification, 5 more STAT proteins have been discovered (STAT 3, 4, 5a, 5b and 6). STATs undergo tyrosine phosphorylations in response to growth factor or cytokine signaling (in some cases mediated by JAK kinases [Janus Kinases 1, 2 and 3]), resulting in dimerization and translocation of STAT proteins to the nucleus. Phosphorylation at serine residues in certain STATs (STAT 1-alpha, 3, 4 and 5) has also been reported, and appears to be required for the maximal activation of these proteins. This antibody recognizes proteins of ~91 and ~84 kDa, identified as STAT 1-alpha and beta. STAT 1 participates in a signaling pathway which is initiated by IFN-gamma.	
Isotype:	Mouse IgG1-kappa	
Formulation:	Purified immunoglobulin in phosphate buffered saline, pH 7.2, with 1% bovine serum albumin. Preservative: 0.1% sodium azide (Caution: sodium azide is a poisonous and hazardous substance. Handle with care and dispose of properly.)	
Purification:	Purified from ascites by affinity chromatography.	
Immunogen:	Recombinant human STAT1-alpha expressed in <i>E. coli</i> .	
Cross-reactivity:	Human, mouse, and rat. Other species were not tested.	
Application:	This antibody is suitable for use in Western blotting.	
Working Dilution:	For Western blotting, the recommended concentration is 1 µg/mL. The optimal antibody concentration should be determined for each specific application.	
Storage:	Store at 2-8°C. For long term storage, aliquot into small volumes and store at -20°C. Avoid repeated freeze-thaw cycles.	
Positive Control:	Human Jurkat and HeLa cells, mouse L929 cells and rat thymocytes.	

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