	Store at -20C
100	9/T6#

Stat1 (9H2) Mouse mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.								
Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 84, 91	Source/Isotype: Mouse IgG1	UniProt ID: #P42224	Entrez-Gene Id: 6772		
Product Usage Information	Ар	plication		Dilution				
	We	estern Blotting		1:1000				
	Imr	munoprecipitation		1:100				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.						
Specificity / Sensiti	how	Stat1 (9H2) Mouse mAb detects endogenous levels of total Stat1 protein independent of phosphorylation, however, it prefers the non-phosphorylated form of Stat1. The antibody detects both Stat1alpha (91 kDa) and Stat1beta (84 kDa) isoforms. It does not significantly cross-react with the other Stat proteins.						
Species predicted t react based on 100 sequence homolog	%	ine						
Source / Purificatio	n Mor	Monoclonal antibody is produced by immunizing animals with a synthetic peptide.						
Background	resp nucl	The Stat1 transcription factor is activated in response to a large number of ligands (1) and is essential for responsiveness to IFN- α and IFN- γ (2,3). Phosphorylation of Stat1 at Tyr701 induces Stat1 dimerization, nuclear translocation, and DNA binding (4). Stat1 protein exists as a pair of isoforms, Stat1 α (91 kDa) and the splice variant Stat1 β (84 kDa). In most cells, both isoforms are activated by IFN- α , but only Stat1 α is						

(MAPK)-dependent pathway in response to IFN- α and other cellular stresses (6). Serine phosphorylation may be required for the maximal induction of Stat1-mediated gene activation. 1. Heim, M.H. (1999) J Recept Signal Transduct Res 19, 75-120. **Background References**

2. Durbin, J.E. et al. (1996) Cell 84, 443-50. 3. Meraz, M.A. et al. (1996) Cell 84, 431-42.

4. Ihle, J.N. et al. (1994) Trends Biochem Sci 19, 222-7.

5. Frank, D.A. (1999) Mol Med 5, 432-56. 6. Wen, Z. et al. (1995) Cell 82, 241-50.

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot).

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry Western Blot Buffer

milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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activated by IFN-y. The inappropriate activation of Stat1 occurs in many tumors (5). In addition to tyrosine phosphorylation, Stat1 is also phosphorylated at Ser727 through a p38 mitogen-activated protein kinase

information.

Limited Uses

Stat1 (9H2) Mouse mAb (#9176) Datasheet Without Images Cell Signaling Technology

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