#98543 Store at -20C

Phospho-Stat3 (Ser754) Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 86	Source: Rabbit	UniProt ID: #P40763	Entrez-Gene Id: 6774	
Product Usage Information	Ap	pplication		Dilution			
	We	estern Blotting			1:1000		
	Im	munoprecipitation			1:100		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sensitivity		Phospho-Stat3 (Ser754) Antibody recognizes endogenous levels of Stat3 protein only when phosphorylated at Ser754.					
Source / Purification	cori	Polyclonal antibodies are produced by immunizing animals with a synthetic phospho-peptide corresponding to residues surrounding Ser754 of human Stat3 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	recc con apc trar at S biol type pho Sta	The Stat3 transcription factor is an important signaling molecule for many cytokines and growth factor receptors (1) and is required for murine fetal development (2). Research studies have shown that Stat3 is constitutively activated in a number of human tumors (3,4) and possesses oncogenic potential (5) and antiapoptotic activities (3). Stat3 is activated by phosphorylation at Tyr705, which induces dimerization, nuclear translocation, and DNA binding (6,7). Transcriptional activation seems to be regulated by phosphorylation at Ser727 through the MAPK or mTOR pathways (8,9). Stat3 isoform expression appears to reflect biological function as the relative expression levels of Stat3 α (86 kDa) and Stat3 β (79 kDa) depend on cell type, ligand exposure, or cell maturation stage (10). It is notable that Stat3 β lacks the serine phosphorylation site within the carboxy-terminal transcriptional activation domain (8). Stat3 is phosphorylated by TBK1 at Ser754 in response to cytosolic DNA reducing Stat3 transcriptional activity (11).					
1. Heim, M.H. (2001) <i>J Recept Signal Transduct Res</i> 19, 75-120. 2. Takeda, K. et al. (1997) <i>Proc Natl Acad Sci U S A</i> 94, 3801-4. 3. Catlett-Falcone, R. et al. (1999) <i>Immunity</i> 10, 105-15. 4. Garcia, R. and Jove, R. (1998) <i>J Biomed Sci</i> 5, 79-85. 5. Bromberg, J.F. et al. (1999) <i>Cell</i> 98, 295-303. 6. Darnell, J.E. et al. (1994) <i>Science</i> 264, 1415-21. 7. Ihle, J.N. (1995) <i>Nature</i> 377, 591-4. 8. Wen, Z. et al. (1995) <i>Cell</i> 82, 241-50. 9. Yokogami, K. et al. (2000) <i>Curr Biol</i> 10, 47-50.							

Species Reactivity

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

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 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

10. Biethahn, S. et al. (1999) Exp Hematol 27, 885-94. 11. Hsia, H.C. et al. (2017) J Biol Chem 292, 5405-5417. 3/23/24. 11:43 AM

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Limited Uses

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