

#4113

Phospho-Stat3 (Tyr705) (M9C6) Mouse mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

ity: Sensitivity: Mk Endogenous	MW (kDa): 79, 86	Source/Isotype: Mouse IgG1	UniProt ID: #P40763	Entrez-Gene Id 6774	
Application Western Blotting				Dilution 1:2000	
3					
			1:5	0 - 1:200	
Immunofluorescence	(Immunocytochem	istry)	1:5	0 - 1:200	
Flow Cytometry (Fixed	Flow Cytometry (Fixed/Permeabilized)		1:100 - 1:400		
			/ml BSA, 50% glyce	rol and less than	
For a carrier-free (BSA	\ and azide free) ver	sion of this product see	product #74309.		
phosphorylated at Tyi	Phospho-Stat3 (Tyr705) (M9C6) Mouse mAb detects endogenous levels of Stat3 only when phosphorylated at Tyr705. This antibody does not cross-react with phospho-EGFR or the corresponding phospho-tyrosines of other Stat proteins.				
	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr705 of mouse Stat3.				
receptors (1) and is re is constitutively activa and anti-apoptotic act dimerization, nuclear regulated by phospho expression appears to Stat3β (79 kDa) deper	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 anti-apoptotic 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).				
2. Takeda, K. et al. (19 3. Catlett-Falcone, R. e 4. Garcia, R. and Jove, 5. Bromberg, J.F. et al. 6. Darnell, J.E. et al. (1 7. Ihle, J.N. (1995) <i>Nat</i> 8. Wen, Z. et al. (1995) 9. Yokogami, K. et al. (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. 10. Biethahn, S. et al. (1999) <i>Exp Hematol</i> 27, 885-94.				
	Application Western Blotting Immunoprecipitation Immunohistochemist Immunofluorescence Flow Cytometry (Fixed Supplied in 10 mM so 0.02% sodium azide. S For a carrier-free (BSA Phospho-Stat3 (Tyr70 phosphorylated at Typ phospho-tyrosines of Monoclonal antibody corresponding to resi The Stat3 transcriptio receptors (1) and is re is constitutively activa and anti-apoptotic act dimerization, nuclear regulated by phospho expression appears to Stat3β (79 kDa) deper Stat3β lacks the serin domain (8). 1. Heim, M.H. (2001) J 2. Takeda, K. et al. (19 3. Catlett-Falcone, R. et 4. Garcia, R. and Jove, 5. Bromberg, J.F. et al. 6. Darnell, J.E. et al. (1 7. Ihle, J.N. (1995) Nat 8. Wen, Z. et al. (1995) 9. Yokogami, K. et al. (1	Application Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin) Immunofluorescence (Immunocytochem Flow Cytometry (Fixed/Permeabilized) Supplied in 10 mM sodium HEPES (pH 7.5 0.02% sodium azide. Store at –20°C. Do n For a carrier-free (BSA and azide free) ver Phospho-Stat3 (Tyr705) (M9C6) Mouse mphosphorylated at Tyr705. This antibody phospho-tyrosines of other Stat proteins. Monoclonal antibody is produced by immunorresponding to residues surrounding The Stat3 transcription factor is an imporreceptors (1) and is required for murine fis constitutively activated in a number of and anti-apoptotic activities (3). Stat3 is a dimerization, nuclear translocation, and I regulated by phosphorylation at Ser727 texpression appears to reflect biological fistat3β (79 kDa) depend on cell type, ligar Stat3β lacks the serine phosphorylation s domain (8). 1. Heim, M.H. (2001) J Recept Signal Trans 2. Takeda, K. et al. (1997) Proc Natl Acad 3. Catlett-Falcone, R. et al. (1999) Immunol 4. Garcia, R. and Jove, R. (1998) J Biomed 5. Bromberg, J.F. et al. (1999) Cell 98, 295-6. Darnell, J.E. et al. (1994) Science 264, 147. Ihle, J.N. (1995) Nature 377, 591-4. 8. Wen, Z. et al. (1995) Cell 82, 241-50. 9. Yokogami, K. et al. (2000) Curr Biol 10,	Application Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin) Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized) Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg, 0.02% sodium azide. Store at ~20°C. Do not aliquot the antibody. For a carrier-free (BSA and azide free) version of this product see Phospho-Stat3 (Tyr705) (M9C6) Mouse mAb detects endogenous phosphorylated at Tyr705. This antibody does not cross-react wit phospho-tyrosines of other Stat proteins. Monoclonal antibody is produced by immunizing animals with a corresponding to residues surrounding Tyr705 of mouse Stat3. The Stat3 transcription factor is an important signaling molecule receptors (1) and is required for murine fetal development (2). Re is constitutively activated in a number of human tumors (3,4) and and anti-apoptotic activities (3). 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Application Western Blotting Immunoprecipitation Immunoprecipitation Immunoprecipitation Immunoprecipitation Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized) 1:1 Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycer 0.02% sodium azide. Store at ~20°C. Do not aliquot the antibody. For a carrier-free (BSA and azide free) version of this product see product #74309. Phospho-Stat3 (Tyr705) (M9C6) Mouse mAb detects endogenous levels of Stat3 only phosphorylated at Tyr705. This antibody does not cross-react with phospho-EGFR or phospho-tyrosines of other Stat proteins. Monoclonal antibody is produced by immunizing animals with a synthetic phosphocorresponding to residues surrounding Tyr705 of mouse Stat3. The Stat3 transcription factor is an important signaling molecule for many cytokines receptors (1) and is required for murine fetal development (2). 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(1999) <i>Cell</i> 98, 295-303. 6. Darnell, J.E. et al. (1999) <i>Cell</i> 98, 295-303. 9. Vokogami, 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

W: Western Blotting **IP:** Immunoprecipitation **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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