#30835 Store at -20C

Stat3 (D1B2J) Rabbit mAb



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Applications: WB, IP, IHC-P, IF-IC	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 79, 86	Source/Isotype: Rabbit IgG	UniProt ID: #P40763	Entrez-Gene Id: 6774	
Product Usage Information	App	olication		Dilution			
imormation	We	stern Blotting		1:1000			
	Imr	Immunoprecipitation			1:200		
	Imr	Immunohistochemistry (Paraffin)			1:100 - 1:400		
	Imr	nunofluorescence (I	mmunocytochem	1:400 - 1:800			
Storage	e Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				erol and less than		
	For	For a carrier free (BSA and azide free) version of this product see product #74234.					
Specificity / Sensit		Stat3 (D1B2J) Rabbit mAb recognizes endogenous levels of total Stat3 protein. Some unclear staining has been observed in rodent. Species reactivity for IHC-P and IF-IC is human preferred.					
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro695 of human Stat3 protein.				esponding to		
Background	rece cons apop trans at Si biolo type	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 Stat3α (86 kDa) and Stat3β (79 kDa) depend on cell type, ligand exposure, or cell maturation stage (10). It is notable that Stat3β lacks the serine phosphorylation site within the carboxy-terminal transcriptional activation domain (8).					
Background Refer	2. Ta 3. Ca 4. Ga 5. Ba 6. Da 7. Ih 8. W 9. Yo	 Heim, M.H. (2001) J Recept Signal Transduct Res 19, 75-120. Takeda, K. et al. (1997) Proc Natl Acad Sci U S A 94, 3801-4. Catlett-Falcone, R. et al. (1999) Immunity 10, 105-15. Garcia, R. and Jove, R. (1998) J Biomed Sci 5, 79-85. Bromberg, J.F. et al. (1999) Cell 98, 295-303. Darnell, J.E. et al. (1994) Science 264, 1415-21. Ihle, J.N. (1995) Nature 377, 591-4. Wen, Z. et al. (1995) Cell 82, 241-50. Yokogami, K. et al. (2000) Curr Biol 10, 47-50. Biethahn, S. et al. (1999) Exp Hematol 27, 885-94. 					

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 IHC-P: Immunohistochemistry (Paraffin)

IF-IC: Immunofluorescence (Immunocytochemistry)

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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Limited Uses

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