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Stat3 (79D7) Rabbit mAb (Biotinylated)

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 79, 86	Source/Isotype: Rabbit IgG	UniProt ID: #P40763	Entrez-Gene Id: 6774		
Product Usage Information		Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at –20°C. Do not aliquot the antibodies.						
Specificity / Sensiti	ivity s	Stat3 (79D7) Rabbit mAb (Biotinylated) recognizes endogenous levels of total Stat3 protein.						
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a GST-Stat3 fusion protein corresponding to the carboxy-terminal sequence of mouse Stat3 protein.						
Product Descriptio	6	This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Stat3 (79D7) Rabbit mAb #4904.						
MW (kDa)		79, 86						
Background	r c t t t t t	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).						
Background Refere	2 3 2 5 6 7 8 8 9	 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	S	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buffe		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	V	WB: Western Blotting						
Cross-Reactivity K	X	 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 						

Trademarks and Patents

Limited Uses

Stat3 (79D7) Rabbit mAb (Biotinylated) (#8232) Datasheet Without Images Cell Signaling Technology

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