Rev		

Store at

2075

## Phospho-Stat3 (Tyr705) (D3A7) XP<sup>®</sup> Rabbit mAb (HRP Conjugate)



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Applications: W	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 79,86	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P40763	Entrez-Gene Id: 6774	
Product Usage Information		<b>Application</b> 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 antibody.					
Specificity/Sensit	tivity	Phospho-Stat3 (Tyr705) (D3A7) XP <sup>®</sup> Rabbit mAb detects endogenous levels of Stat3 only when phosphorylated at tyrosine 705. This antibody does not cross-react with phospho-EGFR or the corresponding phospho-tyrosines of other Stat proteins.					
Species predictec based on 100% se homology		Hamster, Bovine, Pig,	Horse				
Source / Purificat	tion	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr705 of mouse Stat3.					
Description		This Cell Signaling Technology antibody is conjugated to the carbohydrate groups of horseradish peroxidase (HRP) via its amine groups. The HRP conjugated antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-Stat3 (Tyr705) (D3A7) XP <sup>®</sup> Rabbit mAb #9145.					
Background		receptors (1) and is re is constitutively activa and anti-apoptotic act dimerization, nuclear regulated by phospho expression appears to Stat3β (79 kDa) depen	quired for murine f ted in a number of tivities (3). Stat3 is a translocation, and I orylation at Ser727 t oreflect biological fund on cell type, ligar	tant signaling molecule etal development (2). Re human tumors (3,4) and ctivated by phosphoryla DNA binding (6,7). Trans hrough the MAPK or mT unction as the relative et ad exposure, or cell matu ite within the carboxy-te	search studies have l possesses oncoge tion at Tyr705, whic criptional activatior 'OR pathways (8,9), cpression levels of S uration stage (10). It	e shown that Stat3 nic potential (5) ch induces n seems to be Stat3 isoform Stat3α (86 kDa) and t is notable that	
Background Refe	rences	1. Heim, M.H. (2001) <i>J</i> 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. ( 10. Biethahn, S. et al. (	97) Proc Natl Acad 2 et al. (1999) Immuni R. (1998) J Biomed. (1999) Cell 98, 295- 994) Science 264, 14 ure 377, 591-4. I Cell 82, 241-50. (2000) Curr Biol 10,	5ci U S A 94, 3801-4. ty 10, 105-15. Sci 5, 79-85. 303. 415-21. 47-50.			
Species Reactivit	у	Species reactivity is determined by testing in at least one approved application (e.g., western blot).					
Western Blot Buf	fer	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					
Cross-Reactivity l	Key	H: Human M: Mouse R: Rat Mk: Monkey					
Trademarks and	Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. XP is a registered trademark of Cell Signaling Technology, Inc.					

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