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

Applications: WB	<b>Reactivity:</b> H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 79,86	Source/Isotype: Rabbit IgG	UniProt ID: #P40763	Entrez-Gene Id: 6774	
Product Usage Information	•	oplication estern 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 / Sensiti	pho	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 predicted t react based on 100 sequence homolog	%	nster, Bovine, Pig, He	orse				
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr705 of mouse Stat3.					
Product Description	per	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.					
MW (kDa)		79,86					
Background	rece con apo tran at S biol 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 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 $\alpha$ (86 kDa) and Stat3 $\beta$ (79 kDa) depend on cell type, ligand exposure, or cell maturation stage (10). It is notable that Stat3 $\beta$ lacks the serine phosphorylation site within the carboxy-terminal transcriptional activation domain (8).					
Background Refere	2. T 3. C 4. G 5. B 6. C 7. II 8. V 9. Y	• •	7) Proc Natl Acad al. (1999) Immun R. (1998) J Biom 1999) Cell 98, 29 94) Science 264 re 377, 591-4. Cell 82, 241-50. 000) Curr Biol 10	ed Sci 5, 79-85. 95-303. , 1415-21. ), 47-50.			
Species Reactivity	Spec	cies reactivity is deter	rmined by testing	g in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buffe	r						

1/1/24, 11:16 AM	Phospho-Stat3 (Tyr705) (D3A7) XP® Rabbit mAb (HRP Conjugate) (#52075) Datasheet Without Images Ce 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 Ke	WB: Western Blotting
Cross-Reactivity	<ul> <li>Key</li> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>
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