Revision 3 Phospho-Stat3 (Tyr705) (3E2) Mouse mAb



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

Applications: WB, IP, FC-FP	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 79, 86	Source/Isotype: Mouse IgG1	UniProt ID: #P40763	Entrez-Gene Id: 6774
Product Usage Information	West	lication tern Blotting unoprecipitation Cytometry (Fixed/	/Permeabilized)			<b>Dilution</b> 1:1000 1:100 1:200
Storage	0.02%	6 sodium azide. St	ore at –20°C. Do	7.5), 150 mM NaCl, 100 not aliquot the antibody	<i>į</i> .	cerol and less than
Specificity / Sensitiv	<b>/ity</b> Phos	For a carrier free (BSA and azide free) version of this product see product #48313. Phospho-Stat3 (Tyr705) (3E2) Mouse mAb detects endogenous levels of Stat3 only when phosphorylated at tyrosine 705. The antibody does not significantly cross-react with other members of the Stat family.				
Species predicted to react based on 1009 sequence homology	6	e				
Source / Purification		clonal antibody is les surrounding Ty		nunizing animals with a stat3.	synthetic phosphope	ptide corresponding to
Background	recep consti apopt transl at Ser biolog type,	tors (1) and is required is activated is otic activities (3). Socation, and DNA 727 through the Mical function as the ligand exposure, o	uired for murine f n a number of hu Stat3 is activated binding (6,7). Tra IAPK or mTOR p e relative express r cell maturation	tant signaling molecule etal development (2). R man tumors (3,4) and p by phosphorylation at T inscriptional activation s athways (8,9). Stat3 iso sion levels of Stat3 $\alpha$ (86 stage (10). It is notable erminal transcriptional a	esearch studies have ossesses oncogenic yr705, which induce eems to be regulate form expression app kDa) and Stat3β (75 that Stat3β lacks the	e shown that Stat3 is potential (5) and anti- s dimerization, nuclear d by phosphorylation pears to reflect 9 kDa) depend on cell e serine
Background Refere	2. Tak 3. Cat 4. Gai 5. Bro 6. Dar 7. Ihle 8. We 9. Yok		7) Proc Natl Acad al. (1999) Immul R. (1998) J Biom (1999) Cell 98, 25 (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	Specie	es reactivity is dete	rmined by testing	in at least one approve	ed application (e.g., v	vestern blot).
Western Blot Buffer				membrane with diluted h gentle shaking, overr		5% w/v nonfat dry
Applications Key	<b>WB</b> : V	Western Blotting IP	: Immunoprecipi	tation <b>FC-FP:</b> Flow Cyte	ometry (Fixed/Perme	abilized)

3/23/24, 11:31 AM	Phospho-Stat3 (Tyr705) (3E2) Mouse mAb (#9138) Datasheet Without Images Cell Signaling Technology
Cross-Reactivity Key	<ul> <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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