## Jak3 (5H2) Mouse mAb



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

Applications: WB	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 115	Source/Isotype: Mouse IgG1	<b>UniProt ID:</b> #P52333	Entrez-Gene Id: 3718
Product Usage Information	-	oplication estern Blotting			Dilution 1:1000	
Storage	Sup	oplied in 10 mM sodi	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	7.5), 150 mM NaCl, 100 o not aliquot the antibod	μg/ml BSA, 50% glyo	cerol and less than
Specificity / Sensitivity		Jak3 (5H2) Mouse mAb detects endogenous levels of human Jak3 protein.				
Source / Purification		Monoclonal antibody was prepared from animals immunized with a purified recombinant fragment of human Jak3 expressed in E. <i>Coli</i> .				
Background	bind bec for: sub bind Jak dev sev imp	ding to a number of a come autophosphory signaling proteins. T estrates (4), and focading domains.  3 is primarily expresize properties (6-8). It biveral cytokines include	associated cytokidated and phosplinese associated and adhesion kinas ased in hematoponds to the committing IL-2, IL-4, IL-Jak3 (10,11). Jak	kinases (Jak1, Jak2, Jaine receptors (1). Upon horylate their associated signaling proteins, such e (FAK) (5), typically conficted cells and is require on y subunit (yc) and a -7, IL-9, and IL-15 (9). IL 3 is phosphorylated at the subunit (yc) and a -9.	cytokine receptor acti I receptors to provide I as Stats (2), Shc (3), Intain SH2 or other pho I for immune cell fund I shared receptor subulti-2 signaling and Stati	vation, Jak proteins multiple binding sites , insulin receptor ospho-tyrosine- ction and nit also used by 5 activation is highly
Background Refere	2. E 3. V 4. A 5. Z 6. T 7. N 8. F 9. F 10. J 11. C 12. Z 13. C	<ol> <li>Leonard, W.J. and O'Shea, J.J. (1998) Annu Rev Immunol 16, 293-322.</li> <li>Darnell, J.E. (1997) Science 277, 1630-5.</li> <li>VanderKuur, J. et al. (1995) J Biol Chem 270, 7587-93.</li> <li>Argetsinger, L.S. et al. (1995) J Biol Chem 270, 14685-92.</li> <li>Zhu, T. et al. (1998) J Biol Chem 273, 10682-9.</li> <li>Thomis, D.C. et al. (1995) Science 270, 794-7.</li> <li>Nosaka, T. et al. (1995) Science 270, 800-2.</li> <li>Park, S.Y. et al. (1995) Immunity 3, 771-82.</li> <li>Russell, S.M. et al. (1994) Science 266, 1042-5.</li> <li>Johnston, J.A. et al. (1994) Nature 370, 151-3.</li> <li>Oakes, S.A. et al. (1996) Immunity 5, 605-15.</li> <li>Zhou, Y.J. et al. (1997) Proc Natl Acad Sci U S A 94, 13850-5.</li> <li>Cheng, H. et al. (2008) Mol Cell Biol 28, 2271-82.</li> <li>Rikova, K. et al. (2007) Cell 131, 1190-203.</li> </ol>				

**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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

WB: Western Blotting

**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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Trademarks and Patents

**Limited Uses** 

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