3/23/24, 11:03 AM Revision 3

Phospho-Jak2 (Antibody 1220# For Research Use Only. Not for U	3 Trask L	Orders: Support: Web:	Signaling H N O L O G Y* 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) info@cellsignal.com cellsignal.com achusetts 01923 USA
Applications: Reactiv WB, IP H M		UniProt ID: #O60674	Entrez-Gene Id: 3717
Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50	
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg /ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.		
Specificity / Sensitivity	Phospho-Jak2 (Tyr1007/1008) Antibody detects endogenous levels of Jak2 only when phosphorylated at Tyr1007/1008. This antibody may cross-react with phospho-Jak1 and phospho-Tyk2.		
Species predicted to react based on 100% sequence homology:	Rat, Bovine		
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr1007/1008 of human Jak2 protein. Antibodies are purified by protein A and peptide affinity chromatography.		
Background	Members of the Janus family of tyrosine kinases (Jak1, Jak2, Jak3, and Tyk2) are activated by ligands binding to a number of associated cytokine receptors (1). Upon cytokine receptor activation, Jak proteins become autophosphorylated and phosphorylate their associated receptors to provide multiple binding sites for signaling proteins. These associated signaling proteins, such as Stats (2), Shc (3), insulin receptor substrates (4), and focal adhesion kinase (FAK) (5), typically contain SH2 or other phospho-tyrosine- binding domains.		
	The tyrosine residues 1007/1008 of Jak2 in the putative activation residues 1054/1055 in Tyk2, which are important in the regulation	•	
Background References	 Leonard, W.J. and O'Shea, J.J. (1998) Annu Rev Immunol 16 Darnell, J.E. (1997) Science 277, 1630-5. VanderKuur, J. et al. (1995) J Biol Chem 270, 7587-93. Argetsinger, L.S. et al. (1995) J Biol Chem 270, 14685-92. Zhu, T. et al. (1998) J Biol Chem 273, 10682-9. Gauzzi, M.C. et al. (1996) J. Biol. Chem. 271, 20494-20500. 	. 293-322.	
Species Reactivity	Species reactivity is determined by testing in at least one approve	ed application (e.g., we	estern blot).
Western Blot Buffer	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	WB: Western Blotting IP: Immunoprecipitation		
Cross-Reactivity Key	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus NX: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevi GP: Guinea Pig Rab: rabbit All: all species expected 		-
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Techno Jak antibodies produced under license (granting certain rights inc 5,658,791) from Chemicon International, Inc.		S. Patent No.

Phospho-Jak2 (Tyr1007/1008) Antibody (#3771) Datasheet Without Images Cell Signaling Technology All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose, Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.