Phospho-FLT3 (Tyr591) (33G6) Rabbit mAb



Orders:	877-616-CELL (2355) orders@cellsignal.com
Support:	877-678-TECH (8324)
Web:	info@cellsignal.com cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 160	Source/Isotype: Rabbit	UniProt ID: #P36888	Entrez-Gene Id: 2322		
Product Usage Information	2	Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Ser	nsitivity	Phospho-FLT3 (Tyr591) (33G6) Rabbit mAb detects endogenous levels of FLT3 only when phosphorylated at tyrosine 591. The antibody may cross-react with some tyrosine-phosphorylated proteins.						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to the sequence surrounding Tyr591 of human FLT3.						
Background		FMS-related tyrosine kinase 3 (FLT3, also called FLK2) is a member of the Type III receptor tyrosine kinase family, which includes c-Kit, PDGFR, and M-CSF receptors. FLT3 is expressed on early hematopoietic progenitor cells and supports growth and differentiation within the hematopoietic system (1,2). FLT3 is activated after binding with its ligand FL, which results in a cascade of tyrosine autophosphorylation and tyrosine phosphorylation of downstream substrates (3). The p85 subunit of PI3 kinase, SHP2, GRB2, and Shc have all been reported to associate with FLT3 after FL stimulation (4-6). Tyr589/591 is located in the juxtamembrane region of FLT3 and may play an important role in regulation of FLT3 tyrosine kinase activity. Somatic mutations of FLT3 consisting of internal tandem duplications (ITDs) occur in 20% of patients with acute myeloid leukemia (7).						
Background R	eferences	1. Shurin, M.R. et al. (1998) <i>Cytokine Growth Factor Rev</i> 9, 37-48. 2. Naoe, T. et al. (2001) <i>Cancer Chemother Pharmacol</i> 48 Suppl 1, S27-30. 3. Namikawa, R. et al. (1996) <i>Stem Cells</i> 14, 388-95. 4. Beslu, N. et al. (1996) <i>J Biol Chem</i> 271, 20075-81. 5. Zhang, S. and Broxmeyer, H.E. (2000) <i>Biochem Biophys Res Commun</i> 277, 195-9. 6. Zhang, S. et al. (1999) <i>J Leukoc Biol</i> 65, 372-80. 7. Mizuki, M. et al. (2000) <i>Blood</i> 96, 3907-14.						
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot I	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 K	ley	W: Western Blotting						
Cross-Reactivi	ty Key	H: Human M: Mouse						
Trademarks a	nd Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
		All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.						
Limited Uses	Limited Uses Except as otherwise expressly agreed in a writing signed by a legally authorized representative following terms apply to Products provided by CST, its affiliates or its distributors. Any of terms and conditions that are in addition to, or different from, those contained herein, unliseparately accepted in writing by a legally authorized representative of CST, are rejected ar 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 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.