#3464 Store at -20C

Phospho-FLT3 (Tyr589/591) (30D4) Rabbit mAb



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Applications: WB	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 160	Source/Isotype: Rabbit IgG	UniProt ID: #P36888	Entrez-Gene Id: 2322
Product Usage Information	Ар	plication		Dilution		
	We	estern Blotting			1:1000	
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20 °C. Do not aliquot the antibody.				
Specificity / Sens	pho	Phospho-FLT3 (Tyr589/591) (30D4) Rabbit mAb detects endogenous levels of FLT3 protein only when phosphorylated at tyrosine 589/591. The antibody does not cross-react with other phosphorylated tyrosine kinases. (US Patent No. 7,183,385 and foreign equivalents assigned to Cell Signaling Technology, Inc.)				
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to the sequences surrounding Tyr589/591 of human FLT3.				
Background	kina hem (1,2 auto kina Tyr5 FLT	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 Ref	2. N 3. N 4. B 5. Z 6. Z	aoe, T. et al. (2001) amikawa, R. et al. (eslu, N. et al. (1996 hang, S. and Broxn hang, S. et al. (1999	al. (1998) Cytokine Growth Factor Rev 9, 37-48. (2001) Cancer Chemother Pharmacol 48 Suppl 1, S27-30. et al. (1996) Stem Cells 14, 388-95. (1996) J Biol Chem 271, 20075-81. Broxmeyer, H.E. (2000) Biochem Biophys Res Commun 277, 195-9. (1999) J Leukoc Biol 65, 372-80. (2000) Blood 96, 3907-14.			

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 BSA, 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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