

Phospho-FLT3 Antibody Sampler Kit



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

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Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Phospho-FLT3 (Tyr589/591) (30D4) Rabbit mAb	3464	40 µl	160 kDa	Rabbit IgG
Phospho-FLT3 (Tyr591) (33G6) Rabbit mAb	3474	40 µl	160 kDa	Rabbit
Phospho-FLT3 (Tyr842) (10A8) Rabbit mAb	4577	40 µl	160 kDa	Rabbit IgG
Phospho-FLT3 (Tyr969) (C24D9) Rabbit mAb	3463	40 µl	160 kDa	Rabbit IgG
FLT3 (8F2) Rabbit mAb	3462	40 µl	130 nonglycosylated form; 160 glycosylated mature form kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description

The Phospho-FLT3 Antibody Sampler Kit provides an economical means of evaluating the FLT3 tyrosine kinase and several phosphorylation sites that are involved in its activation. The kit includes enough antibody to perform four western blot experiments with each primary antibody.

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.

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 References

1. Shurin, M.R. et al. (1998) *Cytokine Growth Factor Rev* 9, 37-48.
2. Naoe, T. et al. (2001) *Cancer Chemother Pharmacol* 48 Suppl 1, S27-30.
3. Namikawa, R. et al. (1996) *Stem Cells* 14, 388-95.
4. Beslu, N. et al. (1996) *J Biol Chem* 271, 20075-81.
5. Zhang, S. and Broxmeyer, H.E. (2000) *Biochem Biophys Res Commun* 277, 195-9.
6. Zhang, S. et al. (1999) *J Leukoc Biol* 65, 372-80.
7. Mizuki, M. et al. (2000) *Blood* 96, 3907-14.

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