

c-Kit (Ab81) Mouse mAb (Alexa Fluor[®] 488 Conjugate)



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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
ÎF-IC, FC-FP	Н	Endogenous	Mouse IgG1 kappa	#P10721	3815
Product Usage Information		Application Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)			Dilution 1:200 1:50
Storage		Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4° C. Do not aliquot the antibody. Protect from light. Do not freeze.			
Specificity/Sensitivity		c-Kit (Ab81) Mouse mAb detects endogenous levels of total c-Kit protein. It does not cross-react with other receptor tyrosine kinase family members.			
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant proteins containing the cytoplasmic domain of human c-Kit. The antibody was conjugated to Alexa Fluor® 488 under optimal conditions with an F/P ratio of 2-6.			
Description		This Cell Signaling Technology antibody is conjugated to Alexa Fluor [®] 488 fluorescent dye and tested in-house for direct flow cytometry and immunofluorescent analysis in human cells.			
c-Kit is a member of the subfamily of receptor tyrosine kinases that includes PDGF, CSF-1, and F 2 receptors (1,2). It plays a critical role in activation and growth in a number of cell types, includ hematopoietic stem cells, mast cells, melanocytes, and germ cells (3). Upon binding with its ster factor (SCF) ligand, c-Kit undergoes dimerization/oligomerization and autophosphorylation. Act of c-Kit results in the recruitment and tyrosine phosphorylation of downstream SH2-containing signaling components, including PLCy, the p85 subunit of PI3 kinase, SHP2, and CrkL (4). Moleci lesions that impair the kinase activity of c-Kit are associated with a variety of developmental dis (5), and mutations that constitutively activate c-Kit can lead to pathogenesis of mastocytosis and gastrointestinal stromal tumors (6). Tyr719 is located in the kinase insert region of the catalytic c-Kit phosphorylated at Tyr719 binds to the p85 subunit of PI3 kinase in vitro and in vivo (7).					mber of cell types, including Upon binding with its stem cell autophosphorylation. Activation vnstream SH2-containing SHP2, and CrkL (4). Molecular iety of developmental disorders enesis of mastocytosis and ert region of the catalytic domain.
Background Refe	erences	 Martin, F.H. et al. (1990) Cell 63, 203-11. Yarden, Y. et al. (1987) EMBO J 6, 3341-51. Gommerman, J.L. et al. (1997) J Biol Chem 272, 30519-25. Sattler, M. et al. (1997) J Biol Chem 272, 10248-53. Nocka, K. et al. (1990) EMBO J 9, 1805-13. Hirota, S. et al. (1998) Science 279, 577-80. Blume-Jensen, P. et al. (2000) Nat Genet 24, 157-62. 			

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human

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