c-Kit (D13A2) XP® Rabbit mAb



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

Applications: W, IP, IF-IC	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 120 and 145	Source/Isotype: Rabbit IgG	UniProt ID: #P10721	Entrez-Gene Id: 3815
Product Usage Information	2	Application Western Blotting Immunoprecipitation Immunofluorescence		istry)		Dilution 1:1000 1:50 1:400
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.				
		For a carrier free (BSA	and azide free) ver	sion of this product see	product #68871.	
Specificity/Sensitivity		c-Kit (D13A2) XP^{\otimes} Rabbit 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 a synthetic peptide corresponding to the residues surrounding Tyr703 of human c-Kit.				
Background	c-Kit is a member of the subfamily of receptor tyrosine kinases that includes PDGF, CSF-1, and I 2 receptors (1,2). It plays a critical role in activation and growth in a number of cell types, included hematopoietic stem cells, mast cells, melanocytes, and germ cells (3). Upon binding with its stem 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). Molect lesions that impair the kinase activity of c-Kit are associated with a variety of developmental distriction (5), and mutations that constitutively activate c-Kit can lead to pathogenesis of mastocytosis are 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 <i>in vitro</i> and <i>in vivo</i> (7).					ypes, including with its stem cell rylation. Activation -containing L (4). Molecular omental disorders ocytosis and he catalytic domain.
1. Martin, F.H. et al. (1990) <i>Cell</i> 63, 203-11. 2. Yarden, Y. et al. (1987) <i>EMBO J</i> 6, 3341-51. 3. Gommerman, J.L. et al. (1997) <i>J Biol Chem</i> 272, 30519-25. 4. Sattler, M. et al. (1997) <i>J Biol Chem</i> 272, 10248-53. 5. Nocka, K. et al. (1990) <i>EMBO J</i> 9, 1805-13. 6. Hirota, S. et al. (1998) <i>Science</i> 279, 577-80. 7. Blume-Jensen, P. et al. (2000) <i>Nat Genet</i> 24, 157-62.						
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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 W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key H: Human M: Mouse

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