

c-Kit (D13A2) XP[®] Rabbit mAb (Biotinylated)



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

Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 120, 145	Source/Isotype: Rabbit	UniProt ID: #P10721	Entrez-Gene Id: 3815	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
Storage		Supplied in 140 mM NaCl, 3 mM KCI, 10 mM sodium phosphate (pH 7.4) dibasic, 2 mM potassium phosphate monobasic, 2 mg/mL BSA, and 50% glycerol. Store at –20°C. <i>Do not aliquot the antibody.</i>					
Specificity/Sens	itivity	c-Kit (D13A2) XP [®] Rabbit mAb (Biotinylated) detects endogenous levels of total c-Kit protein. It does no cross-react with other receptor tyrosine kinase family members.				orotein. It does not	
Source / Purifica	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr703 of human c-Kit protein.					
Description		This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated c-Kit (D13A2) XP [®] Rabbit mAb #3074.					
Background		c-Kit is a member of the subfamily of receptor tyrosine kinases that includes PDGF, CSF-1, and FLT3/flk- 2 receptors (1,2). It plays a critical role in activation and growth in a number of cell types, including hematopoietic stem cells, mast cells, melanocytes, and germ cells (3). Upon binding with its stem cell factor (SCF) ligand, c-Kit undergoes dimerization/oligomerization and autophosphorylation. Activation of c-Kit results in the recruitment and tyrosine phosphorylation of downstream SH2-containing signaling components, including PLCγ, the p85 subunit of PI3 kinase, SHP2, and CrkL (4). Molecular lesions that impair the kinase activity of c-Kit are associated with a variety of developmental disorders (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 domain. c-Kit phosphorylated at Tyr719 binds to the p85 subunit of PI3 kinase <i>in vitro</i> and <i>in vivo</i> (7).					
Background Ref	ferences	1. Martin, F.H. et al. (19 2. Yarden, Y. et al. (198 3. Gommerman, J.L. et 4. Sattler, M. et al. (199 5. Nocka, K. et al. (1990 6. Hirota, S. et al. (1998 7. Blume-Jensen, P. et a	990) <i>Cell</i> 63, 203-11 7) <i>EMBO J</i> 6, 3341-5 al. (1997) <i>J Biol Che</i> 7) <i>J Biol Chem</i> 272, 9) <i>EMBO J</i> 9, 1805-1 8) <i>Science</i> 279, 577- al. (2000) <i>Nat Gene</i>	51. 2m 272, 30519-25. 10248-53. 3. 80. t 24, 157-62.			
Species Reactiv	ity	Species reactivity is de	termined by testing	g in at least one approve	d application (e.g.,	western blot).	
Western Blot Bu	ıffer	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 Ke	у	W: Western Blotting					
Cross-Reactivity	/ Кеу	H: Human M: Mouse					
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