

c-Kit (D3W6Y) XP® Rabbit mAb



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

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

Reactivity:	Sensitivity: Endogenous	MW (kDa): 120, 145	Source/Isotype: Rabbit IgG	UniProt ID: #P10721	Entrez-Gene Id 3815	
Product Usage		Application			Dilution	
Information	Western Blotting			1:1000		
				1:200		
				1:100		
	Immunohistochemistry (Paraffin)			1:100		
	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.					
	For a carrier-free (BSA and azide free) version of this product see product #67295.					
sitivity	c-Kit (D3W6Y) XP^{\otimes} Rabbit mAb recognizes endogenous levels of total c-Kit protein. This antibody is predicted to detect multiple isoforms of c-Kit.					
ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val955 of human c-Kit protein.					
	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 PLCy, 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).					
ferences	 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. 					
	sitivity ation	Application Western Blotting Immunoprecipitation IHC Leica Bond Immunohistochemist Supplied in 10 mM so 0.02% sodium azide. S For a carrier-free (BSA sitivity c-Kit (D3W6Y) XP® Rak predicted to detect m Monoclonal antibody residues surrounding c-Kit is a member of tl 2 receptors (1,2). It pla hematopoietic stem of factor (SCF) ligand, c-l of c-Kit results in the r signaling components lesions that impair the (5), and mutations that gastrointestinal strom c-Kit phosphorylated at 1. Martin, F.H. et al. (1) 2. Yarden, Y. et al. (198 3. Gommerman, J.L. e 4. Sattler, M. et al. (199 6. Hirota, S. et al. (199 6. Hirota, S. et al. (199	Application Western Blotting Immunoprecipitation IHC Leica Bond Immunohistochemistry (Paraffin) Supplied in 10 mM sodium HEPES (pH 7.5 0.02% sodium azide. Store at -20°C. Do n For a carrier-free (BSA and azide free) ver sitivity c-Kit (D3W6Y) XP® Rabbit mAb recognizes predicted to detect multiple isoforms of compression of compression of the subfamily of recession of compression of compressio	Application Western Blotting Immunoprecipitation IHC Leica Bond Immunohistochemistry (Paraffin) Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg, 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. For a carrier-free (BSA and azide free) version of this product see sitivity c-Kit (D3W6Y) XP® Rabbit mAb recognizes endogenous levels of to predicted to detect multiple isoforms of c-Kit. Monoclonal antibody is produced by immunizing animals with a sresidues surrounding Val955 of human c-Kit protein. c-Kit is a member of the subfamily of receptor tyrosine kinases the 2 receptors (1,2). It plays a critical role in activation and growth in hematopoietic stem cells, mast cells, melanocytes, and germ cells factor (SCF) ligand, c-Kit undergoes dimerization/oligomerization of c-Kit results in the recruitment and tyrosine phosphorylation of signaling components, including PLCy, the p85 subunit of PI3 kin lesions that impair the kinase activity of c-Kit are associated with (5), and mutations that constitutively activate c-Kit can lead to part gastrointestinal stromal tumors (6). Tyr719 is located in the kinase c-Kit phosphorylated at Tyr719 binds to the p85 subunit of PI3 kin (5), and mutations that constitutively activate c-Kit can lead to part gastrointestinal stromal tumors (6). Tyr719 is located in the kinase c-Kit phosphorylated at Tyr719 binds to the p85 subunit of PI3 kin (1990) PMBO J6, 3341-51. 3. Gommerman, J.L. et al. (1990) Cell 63, 203-11. 2. Yarden, Y. et al. (1997) J Biol Chem 272, 30519-25. 4. Sattler, M. et al. (1997) J Biol Chem 272, 10248-53. 5. Nocka, K. et al. (1998) Science 279, 577-80.	Application Western Blotting Immunoprecipitation HC Leica Bond Immunohistochemistry (Paraffin) Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycel 0.02% sodium azide. Store at ~20°C. Do not aliquot the antibody. For a carrier-free (BSA and azide free) version of this product see product #67295. Sitivity c-Kit (D3W6Y) XP® Rabbit mAb recognizes endogenous levels of total c-Kit protein. Tipredicted to detect multiple isoforms of c-Kit. Monoclonal antibody is produced by immunizing animals with a synthetic peptide or residues surrounding Val955 of human c-Kit protein. c-Kit is a member of the subfamily of receptor tyrosine kinases that includes PDGF, 0.2 receptors (1,2). It plays a critical role in activation and growth in a number of cell ty hematopoietic stem cells, mast cells, melanocytes, and germ cells (3). Upon binding factor (SCF) ligand, c-Kit undergoes dimerization/oligomerization and autophosphor of c-Kit results in the recruitment and tyrosine phosphorylation of downstream SH2-signaling components, including PLCy, the p85 subunit of PI3 kinase, SHP2, and Crk lesions that impair the kinase activity of c-Kit are associated with a variety of develor (5), and mutations that constitutively activate c-Kit can lead to pathogenesis of mast gastrointestinal stromal tumors (6). Tyr719 is located in the kinase insert region of the c-Kit phosphorylated at Tyr719 binds to the p85 subunit of PI3 kinase in vitro and in c-Kit phosphorylated at Tyr719 binds to the p85 subunit of PI3 kinase in vitro and in L. Martin, F.H. et al. (1990) Cell 63, 203-11. 2. Yarden, Y. et al. (1997) J Biol Chem 272, 30519-25. 4. Sattler, M. et al. (1997) J Biol Chem 272, 30519-25. 5. Nocka, K. et al. (1998) EMBO J 9, 1805-13. 6. Hirota, S. et al. (1998) Science 279, 577-80.	

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 nonfat

dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting IP: Immunoprecipitation IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry

(Paraffin)

Cross-Reactivity Key H: Human

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