

#13562 Store at -20C

Kindlin-2 Antibody

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M Mk	Endogenous	77	Rabbit	#Q96AC1	10979

Product Usage Information	Application Western Blotting	Dilution 1:1000
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	Kindlin-2 Antibody recognizes endogenous levels of total kindlin-2 protein. This antibody does not cross-react with kindlin-1 or kindlin-3 proteins.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asn502 of human kindlin-2 protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	<p>The kindlin family of focal adhesion proteins is involved in multiple biological processes, including integrin signaling, adhesion, migration, angiogenesis, differentiation, and mitotic spindle formation (1,2). Kindlin family members 1, 2, and 3 (FERM1, FERM2, and URP2) are differentially expressed in tissues. Kindlin-1 is primarily expressed in epithelial cells, kindlin-2 is ubiquitously expressed, and kindlin-3 expression is restricted to the hematopoietic system (3).</p> <p>Kindlin-2 regulates integrin β3 mediated adhesion and migration (4,5) and contributes to Wnt signaling through interaction with β-catenin and activation of Wnt target genes (6).</p> <p>Research studies indicate that kindlin-2 expression in pancreatic and gastric cancers may be indicative of poor prognosis (7,8) and that kindlin-2 may support invasiveness in breast cancer (9). Additional studies show that expression of kindlin-2 in prostate cancer cells can protect cells from cisplatin-induced cell death (10).</p>	
Background References	<ol style="list-style-type: none"> Ye, F. and Petrich, B.G. (2011) <i>Curr Opin Hematol</i> 18, 356-60. Meves, A. et al. (2009) <i>Trends Cell Biol</i> 19, 504-13. Karaköse, E. et al. (2010) <i>J Cell Sci</i> 123, 2353-6. Ma, Y.Q. et al. (2008) <i>J Cell Biol</i> 181, 439-46. Bledzka, K. et al. (2010) <i>J Biol Chem</i> 285, 30370-4. Yu, Y. et al. (2012) <i>EMBO Rep</i> 13, 750-8. Mahawithitwong, P. et al. (2013) <i>Pancreas</i> 42, 663-9. Shen, Z. et al. (2012) <i>Am J Surg</i> 203, 222-9. Yu, Y. et al. (2013) <i>Int J Cancer</i> 133, 1368-79. Gong, X. et al. (2010) <i>Cancer Lett</i> 299, 54-62. 	

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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected

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