

Kindlin-2 Antibody



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

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

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).

Kindlin-2 regulates integrin β 3 mediated adhesion and migration (4,5) and contributes to Wnt signaling through interaction with β -catenin and activation of Wnt target genes (6).

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).

Background References

1. Ye, F. and Petrich, B.G. (2011) *Curr Opin Hematol* 18, 356-60.
2. Meves, A. et al. (2009) *Trends Cell Biol* 19, 504-13.
3. Karaköse, E. et al. (2010) *J Cell Sci* 123, 2353-6.
4. Ma, Y.Q. et al. (2008) *J Cell Biol* 181, 439-46.
5. Bledzka, K. et al. (2010) *J Biol Chem* 285, 30370-4.
6. Yu, Y. et al. (2012) *EMBO Rep* 13, 750-8.
7. Mahawithwong, P. et al. (2013) *Pancreas* 42, 663-9.
8. Shen, Z. et al. (2012) *Am J Surg* 203, 222-9.
9. Yu, Y. et al. (2013) *Int J Cancer* 133, 1368-79.
10. Gong, X. et al. (2010) *Cancer Lett* 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

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **Mk:** Monkey

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