

Kindlin-3 (D8I7V) Rabbit mAb

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IHC-P, FC-FP	H M R	Endogenous	75	Rabbit IgG	#Q86UX7	83706

Product Usage Information**Application**

Western Blotting
Immunoprecipitation
Immunohistochemistry (Paraffin)
Flow Cytometry (Fixed/Permeabilized)

Dilution

1:1000
1:100
1:400
1:50

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.

Specificity/Sensitivity

Kindlin-3 (D8I7V) Rabbit mAb recognizes endogenous levels of total Kindlin-3 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Arg648 of human Kindlin-3 protein.

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-3 (FERMT3 or URP2) is a member of the kindlin family of focal adhesion proteins, which plays an essential role in integrin activation and in various immune functions (3,4). Kindlin-3 is mainly expressed in the hematopoietic system (5). Kindlin-3, together with talin, binds to the cytoplasmic tail of β -integrin and activates integrin-mediated signaling cascades (6-8). Research studies identified mutations of Kindlin-3 that cause a rare hereditary human disease, leukocyte-adhesion deficiency (LAD) type III (9,10).

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. Fagerholm, S.C. et al. (2014) *Am J Clin Exp Immunol* 3, 37-42.
5. Pasini, E.M. et al. (2006) *Blood* 108, 791-801.
6. Tadokoro, S. et al. (2003) *Science* 302, 103-6.
7. Wegener, K.L. et al. (2007) *Cell* 128, 171-82.
8. Moser, M. et al. (2009) *Science* 324, 895-9.
9. Malinin, N.L. et al. (2009) *Nat Med* 15, 313-8.
10. Svensson, L. et al. (2009) *Nat Med* 15, 306-12.

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-P:** Immunohistochemistry (Paraffin) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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