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KINDLIN3 Antibody
Catalog # ASC10764

Specification

KINDLIN3 Antibody - Product Information

Application	**IF**
Primary Accession	Q86UX7
Other Accession	NP_848537, 83706
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**KINDLIN3 antibody can be used for detection of KINDLIN3 by Western blot at 1 and 2 µg/mL.**

KINDLIN3 Antibody - Additional Information

Gene ID **83706**

Target/Specificity
KINDLIN3 antibody was raised against a 19 amino acid synthetic peptide near the carboxy terminus of the human KINDLIN3.

The immunogen is located within the last 50 amino acids of KINDLIN3.

Reconstitution & Storage
KINDLIN3 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
KINDLIN3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

KINDLIN3 Antibody - Protein Information

Name FERMT3

Synonyms KIND3, MIG2B, URP2

Function
Plays a central role in cell adhesion in hematopoietic cells (PubMed:19234463, PubMed:26359933). Acts by activating the integrin beta-1-3 (ITGB1, ITGB2 and ITGB3) (By similarity). Required for integrin-mediated platelet adhesion and leukocyte adhesion to endothelial cells (PubMed:19234460). Required for activation of integrin beta-2 (ITGB2) in polymorphonuclear granulocytes (PMNs) (By similarity).

Cellular Location

Cell projection, podosome. Note=Present in the F-actin surrounding ring structure of podosomes, which are specialized adhesion structures of hematopoietic cells

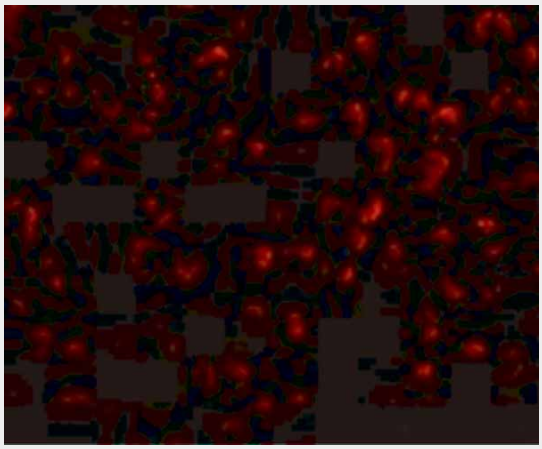
Tissue Location
Highly expressed in lymph node. Expressed in thymus, spleen and leukocytes. Weakly expressed in placenta, small intestine, stomach, testis and lung. Overexpressed in B-cell malignancies.

KINDLIN3 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KINDLIN3 Antibody - Images



Immunofluorescence of DEDAF in A549 cells with DEDAF antibody at 20 µg/mL.

KINDLIN3 Antibody - Background

KINDLIN3 Antibody: The three KINDLINs are a novel family of focal adhesion proteins, localizing to integrin adhesion sites. The KINDLIN proteins are composed of a centrally located FERM domain interrupted by a pleckstrin homology (PH) domain. KINDLIN1 and KINDLIN2 have been shown to play an essential role in integrin-mediated adhesion and spreading. In contrast to the widely expressed KINDLIN1 and KINDLIN2, KINDLIN3 is restricted to hematopoietic cells and is particularly abundant in megakaryocytes and platelets. Several reports describe a transcriptional misregulation of KINDLINs in various types of cancer. A recent study demonstrates that KINDLIN3 is essential for platelet integrin activation and subsequent integrin outside-in signaling, suggesting it may serve as a potential target for the design of therapeutics aimed at specifically disrupting integrin activation in platelets and leukocytes.

KINDLIN3 Antibody - References

Ussar S, Wang HV, Linder S, et al. The Kindlins: subcellular localization and expression during

murine development. Exp. Cell Res.2006; 312:3142-51.
Weinstein EJ, Bourner M, Head R, et al. URP1: a member of a novel family of PH and FERM domain-containing membrane-associated proteins is significantly over-expressed in lung and colon carcinomas. Biochim. Biophys. Acta2003; 1637:207-16.
Boyd RS, Adam PJ, Patel S, et al. Proteomic analysis of the cell-surface membrane in chronic lymphocytic leukemia: identification of two novel proteins, BCNP1 and MIG2B. Leukemia2003; 17:1605-12.
Mory A, Feigelson SW, Yarali N, et al. Kindlin-3: a new gene involved in the pathogenesis of LAD-III. Blood2008; 112:2591.