3050 Spruce Street, St. Louis, MO 63103 USA
Tel: (800) 521-8956 (314) 771-5765 Fax: (800) 325-5052 (314) 771-5757
email: techservice@sial.com sigma-aldrich.com

Product Information

Anti-Kindlin-2
produced in rabbit, affinity isolated antibody

Product Number **K3269**

Product Description

Anti-Kindlin-2 is produced in rabbit using as the immunogen a synthetic peptide corresponding to a fragment of human Kindlin-2 (GeneID: 10979), conjugated to KLH. The corresponding sequence is identical in mouse, rat, canine, and monkey. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-Kindlin-2 recognizes human, mouse, rat, and canine Kindlin-2. The antibody may be used in various immunochemical techniques including immunoblotting (~72 kDa) and immunofluorescence. Detection of the Kindlin-2 band by immunoblotting is specifically inhibited by the immunizing peptide.

Kindlin-2, also named mig-2, is a member of the kindlin family of focal adhesion proteins. The kindlin family consists of three members in vertebrates, Kindlin-1, Kindlin-2 and Kindlin-3, which share high sequence homology and a common structure containing a C-terminal FERM domain and a pleckstrin-homology domain. Even though their tissue distribution differs, the three kindlins are essential for the regulation of integrin activation by binding the tails of integrin-β subunits. While Kindlin-1 and Kindlin-2 are widely expressed, Kindlin-3 is preferentially expressed in hematopoietic cells, mainly in megakaryocytes and platelets. Loss of kindlins results in severe defects in integrin signaling, cell-ECM adhesion and cytoskeletal organization. Deficiency of Kindlin-1 results in Kindler syndrome, Kindlin-2 results in early embryonic lethality due to cardiac developmental problems, and Kindlin-3 results in postnatal lethality due to abnormalities in platelet, leukocyte and erythrocyte function.[1-5] Kindlin-2 is required for myocyte elongation and muscle differentiation.[6] Its expression is altered in several types of human cancer.[7]

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide as a preservative.

Antibody concentration: ~1.0 mg/mL

Precautions and Disclaimer

For R&D use only. Not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For continuous use, store at 2–8 °C for up to one month. For extended storage freeze in working aliquots. Repeated freezing and thawing is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working concentration of 1-2 μg/mL is recommended using whole extracts of human HeLa, mouse P19, or rat AT3B-1 cells.

Immunofluorescence: a working concentration of 2-5 μg/mL is recommended using canine MDCK cells.

Note: In order to obtain best results in various techniques and preparations, it is recommended to determine optimal working dilutions by titration test.

References

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3. Larjava, H. et al., *EMBO Rep.*, **9**, 1203-1208 (2008).
4. Moser, M. et al., *Science*, **324**, 895-899 (2009).
5. Dowling, J.J. et al., *Circ. Res.*, **102**, 423-431 (2008).
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7. Shi, X., and Wu, C., *Mol. Cancer Res.*, **6**, 715-724 (2008).

VS,ST,TD,KAA,PHC,MAM 04/19-1