

Product Information

Anti-Kindlin-2 antibody, Mouse monoclonal
clone 3A3, purified from hybridoma cell culture

Catalog Number **SAB4200525**

Product Description

Anti-Kindlin-2 (mouse IgG1 isotype) is derived from the hybridoma 3A3 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a recombinant C-terminal region fusion protein of human Kindlin-2 (GeneID: 10979).¹ The isotype is determined by ELISA using Mouse Monoclonal Antibody Isotyping Reagents, Catalog Number ISO2. The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Anti-Kindlin-2 recognizes human, monkey, bovine, dog rat and mouse kindlin-2. The product may be used in several immunochemical techniques including immunoblotting (~ 72 kDa), flow cytometry, immunoprecipitation, immunocytochemistry, and immunohistochemistry.¹⁻³

Kindlins, a family of focal adhesion proteins, are involved in attachment of the actin cytoskeleton to the plasma membrane and in integrin-mediated cellular processes.⁴ A member of this family, Kindlin-2 (referred to as Mig-2) has broad expression in all solid tissues of mesenchymal origin. Mouse Kindlin-2 knockout is embryonic lethal. The phenotype of Kindlin-2 knockdown in zebrafish embryos is consistent with defective integrin function, exerting a prominent effect on cardiac development. Human deficiencies of Kindlin-2 are predicted to be embryonic lethal similar to Kindlin-2 ablation in mice and zebrafish. Malignant transformation can alter the expression patterns of Kindlin-2 as has been reported in breast cancer cells and leiomyomas.⁵ Moreover, Kindlin-2 expression had a significant positive correlation with tumor stromal invasion, lymph node metastasis and poor overall survival.⁶

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 Material Safety Data Sheet for information regarding hazards and safe handling practices.

Storage/Stability

For extended storage, freeze at -20 °C in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, 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 1.0-2.0 µg/mL is recommended using HeLa total cell extracts.

Note: In order to obtain the best results using various techniques and preparations, we recommend determining optimal working dilutions by titration.

References

1. Tu, Y., et al., *Cell*, **113**, 37-47 (2003).
2. Shi, X., et al., *J. Biol. Chem.*, **282**, 20455-20466 (2007).
3. Papachristou, P., et al., *Histopathol.*, **51**, 499-508, 2007.
4. Larjava, H., et al., *EMBO reports*, **9**, 1203-1208 (2008).
5. Malinin, N.L., et al., *Blood.*, **115**, 4011-4017 (2010).
6. Shen, Z., et al., *Am. J. Surg.*, **203**, 222-229 (2012).

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