

Product Information

Anti-PLEKHA7 (C-terminal)

produced in rabbit, affinity isolated antibody

Catalog Number: **SAB4200262**

Product Description

Anti-PLEKHA7 (C-terminal) is produced in rabbit using as immunogen a synthetic peptide corresponding to the C-terminal region of human PLEKHA7 (Gene ID: 144100) conjugated to KLH. The corresponding sequence differs by a single amino acid in mouse. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-PLEKHA7 (C-terminal) recognizes human PLEKHA7. The antibody may be used in several immunochemical techniques including immunoblotting (~130 kDa) and immunoprecipitation. Detection of the PLEKHA7 band by immunoblotting is specifically inhibited by the immunizing peptide.

PH domain-containing family A, member 7 (PLEKHA7) is a 1121 amino acid protein that contains WW, PH (pleckstrin homology), and CC (coiled-coil) domains. PLEKHA7 and its binding partner NEZHA were discovered as proteins that are part of cadherin-based protein complex in mammalian epithelial cells. This complex can anchor microtubule minus ends to the zonula adherens (ZA) and is important for the biogenesis of this specialized junction. PLEKHA7 binds directly to E-cadherin and cadherin-associated protein p120-catenin complexes, and appears to be necessary for recruiting NEZHA to the ZA.^{1,2}

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

This product is 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 continuous use, store at 2-8 °C for up to one month. For extended storage, freeze 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 dilutions should be discarded if not used within 12 hours.

Product Profile

Immunoblotting: a working antibody concentration of 0.5-1.0 µg/mL is recommended using lysates of HEK-293T cells over-expressing human PLEKHA7.

Immunoprecipitation: a working amount of 2.5- 5.0 µg is recommended using lysates of HEK-293T cells over-expressing human PLEKHA7.

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

References

1. Meng, W., et al., *Cell*, **135**, 948-959 (2008).
2. Akhmanova, A., and Yap, A.S., *Cell*, **135**, 791-793 (2008).

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