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Product Information

Anti-NEZHA (C-terminal)
produced in rabbit, affinity isolated antibody

Catalog Number: **SAB4200171**

Product Description
Anti-NEZHA (C-terminal) is produced in rabbit using as immunogen a synthetic peptide corresponding to a sequence at the C-terminal region of human NEZHA (Gene ID: 57662) conjugated to KLH. The corresponding sequence is identical in mouse and rat. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-NEZHA (C-terminal) recognizes human NEZHA. The antibody may be used in several immunochemical techniques including immunoblotting (~150 kDa), immunoprecipitation and immunofluorescence. Detection of the NEZHA band by immunoblotting is specifically inhibited by the immunizing peptide.

Nezha (a deity in Chinese mythology), also known as KIAA1543 and calmodulin-regulated spectrin-associated protein 3, is a 1276 amino acid protein that contains one calponin homology (CH) and two coiled-coil (CC1 and 2) domains, as well as one DUF1781 (DUF) domain of unknown function.
Nezha and its binding partner PLEKHA7 were discovered as new proteins which are part of the cadherin-based protein complex in mammalian epithelial cells. This complex can anchor microtubule minus ends to the zonula adherens (ZA) and is necessary for the biogenesis of this specialized junction. Nezha exists in the cells in two pools: junctional and cytoplasmic. The junctional Nezha is recruited to this site via its interaction with PLEKHA7. Depletion of Nezha from cultured human cells disrupted 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 µg/mL is recommended using lysates of HEK-293T cells overexpressing human NEZHA.

Immunoprecipitation: a working amount of 5.0-10µg is recommended using lysates of HEK- 293T cells overexpressing human NEZHA.

Immunofluorescence: a working concentration of 2.5- 5.0 µg/mL is recommended using MDCK fixed cells.

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

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