

Product Information

Anti-RNF5

produced in rabbit, affinity isolated antibody

Product Number **SAB4200208**

Product Description

Anti-RNF5 is produced in rabbit using as the immunogen a synthetic peptide corresponding to a fragment of human RNF5 (GeneID: 6048), conjugated to KLH. The corresponding sequence is identical in mouse, rat, monkey, bovine, pig, horse, and canine. The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-RNF5 recognizes human RNF5. The antibody may be used in various immunochemical techniques including immunoblotting (~20 kDa). Detection of the RNF5 band by immunoblotting is specifically inhibited by the immunizing peptide.

RNF5 (Ring-finger protein 5), also known as RMA1, is a membrane-bound RING finger E3 ubiquitin ligase, which is conserved from worm to human.¹⁻² RNF5 is a component of the ERAD machinery, where it has a role in ubiquitin-dependent degradation of misfolded proteins, such as mutant CFTR, as part of the cell protein quality control. Deregulation of RNF5 in ER stress is associated with muscular disorders.³⁻⁴ RNF5 regulates cell motility by targeting paxillin ubiquitination and altering the distribution and localization of paxillin in cytoplasm and cell focal adhesions.² RNF5 is also involved in the regulation of cellular antiviral responses.⁵⁻⁶ High expression of RNF5 is detected in breast cancer tumors and in melanoma, leukemia, ovarian and renal tumor-derived cell lines.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, 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 concentration of 2.5-5.0 µg/mL is recommended using whole extracts of human HeLa cells.

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

References

1. Kyushiki, H., et al., *Cytogenet. Cell Genet.*, **79**, 114-117 (1997).
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4. Delaunay, A., et al., *Plos One*, **3**, e1609 (2008).
5. Zhong, B., et al., *Immunity*, **30**, 397-407 (2009).
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7. Bromberg, K.D., et al., *Cancer Res.*, **67**, 8172-8179 (2007).

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