

Product Information

Anti-SND1 antibody, Mouse monoclonal
clone SND1-3, purified from hybridoma cell culture

Catalog Number **SAB4200504**

Product Description

Anti-SND1 (mouse IgG1 isotype) is derived from the hybridoma SND1-3 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a synthetic peptide corresponding to an internal region of human SND1 (GeneID: 27044), conjugated to KLH. The corresponding sequence differs by a single amino acid in mouse and rat SND1. 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-SND1 recognizes human, mouse, rat, hamster and bovine SND1. The antibody may be used in various immunochemical techniques including immunoblotting (~102 kDa), immunoprecipitation and immunofluorescence. Detection of the SND1 band by immunoblotting is specifically inhibited by the immunizing peptide.

Tudor-SN, also called SND1 or p100, has been shown to be involved in the regulation of transcription and RNA biogenesis. SND1 protein is highly conserved from yeast to human. SND1 contains five repeated staphylococcal nuclease-like domains and a Tudor-like domain, probably required for its interaction with nucleic acids and proteins, respectively. SND1 is a component of the RNA-induced silencing complex (RISC). SND1 promotes the degradation of hyper-edited inosine-containing miRNA precursors. It modulates miRNA processing and expression through RNA editing by ADAR (adenosine deaminase acting on RNA). SND1 is up regulated in human colon cancer tissues and cell lines.¹⁻⁴

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 continuous use, store at 2-8 °C for up to one month. 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 1-2 µg/mL is recommended using whole extracts of human HeLa or HEK-293T cells.

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

References

1. Tsuchiya, N., et al., *Cancer Res.*, **67**, 9568-9576 (2007).
2. Li, C.L., et al., *Nucl. Acids Res.*, **36**, 3579-3589 (2008).
3. Garcia-Arcos, I., et al., *J. Physiol. Biochem.*, **66**, 73-83 (2010).
4. Saarikettu, J., et al., *Hybridoma*, **29**, 231-236 (2010).

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