

Product Information

Anti-Nexilin Antibody, Mouse Monoclonal

Clone NX-38, purified from Hybridoma Cell Culture

SAB4200124

Product Description

Monoclonal Anti-Nexilin (mouse IgG2a isotype) is derived from the hybridoma NX-38 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with a synthetic peptide corresponding to a fragment of human Nexilin (GeneID 91624), conjugated to KLH. The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti-Nexilin recognizes human, rat, and mouse nexilin. The product may be used in several immunochemical techniques including immunoblotting (80 kDa) and immunocytochemistry. Staining of the Nexilin band in immunoblotting is specifically inhibited by the immunizing peptide.

Bundles of filamentous actin (F-actin) form primary structural components of a broad range of cytoskeletal processes including filopodia, sensory hair cell bristles, and microvilli. Actin-binding proteins allow the cell to tailor the dimensions and mechanical properties of the bundles to suit specific biological functions.¹ One of these proteins, Nexilin, is a filamentous actin-binding protein that localizes to focal contacts and may be involved in cell adhesion and migration. It has two splice variants that have different physical and functional properties. The large variant is called b-nexilin and the small variant is called s-nexilin.²⁻³ Mutations in this gene have been associated with dilated cardiomyopathy, also known as CMD1CC.⁴

Reagent

Supplied as a solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide.

Antibody concentration: ~ 1.0 mg/mL

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses.

Storage/Stability

Store at -20 °C. 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 antibody concentration of 1-2 µg/mL is recommended using rat brain S1 fraction extracts.

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

References

1. Uribe, R., and Jay, D., *Mol. Biol. Rep.*, **36**, 121-125 (2009).
2. Ohtsuka, T. et al., *J. Cell Biol.*, **143**, 1227-1238 (1998).
3. Wang, W. et al., *Biochem. Biophys. Res. Commun.*, **330**, 1127-1131 (2005).
4. Hassel, D. et al., *Nat. Med.*, **15**, 1281-1288 (2009).

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