

Product Information

Anti-PVRL4 Antibody, Mouse Monoclonal

Clone N4.101.10, purified from Hybridoma Cell Culture

SAB4200370

Product Description

Monoclonal Anti-Nectin-4/PVRL4 (mouse IgG1 isotype) is derived from the hybridoma R2.525.2 produced by the fusion of mouse myeloma cells and splenocytes from BALB/c mice immunized with human nectin4-Fc recombinant protein (GeneID: 81607).¹ The isotype is determined using a double diffusion immunoassay using Mouse Monoclonal Antibody Isotyping Reagents, (Cat. No. ISO2). The antibody is purified from culture supernatant of hybridoma cells grown in a bioreactor.

Monoclonal Anti-Nectin-4/PVRL4 recognizes human Nectin-4/PVRL4. The antibody may be used in various immunochemical techniques including immunocytochemistry and flow cytometry.

Nectins are a family composed of 4 members, nectin-1, -2, -3, and -4. All of the nectins form homo-*cis*-dimers and then homo- or hetero-*trans*-dimers through the extracellular region in a Ca²⁺-independent manner, causing cell-cell adhesion. These proteins are one of the plasma membrane components of adherens junctions.² Specifically, the expression of a member of this family, nectin-4, is involved in cell adhesion through trans- homophilic and -heterophilic interactions. Nectin-4 expression is normally restricted to the placenta but has been reported in ductal breast carcinoma and lung adenocarcinomas.³⁻⁵ Interestingly, the ectodomain of this protein can be cleaved at the cell surface by the metalloproteinase ADAM17/TACE and is detected in serum and tissues in breast and ovarian cancers.⁴⁻⁷ Furthermore, mutations in this gene were suggested to result in ectodermal dysplasia-syndactyly syndrome type 1, an autosomal recessive disorder.⁸

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 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

Flow cytometry

A working antibody concentration of 5.0-10.0 µg/test is recommended using 1x10⁶ MDA-MB-231 cells.

Immunocytochemistry

A working antibody concentration of 2.5-5 µg/mL is recommended using MDA-MB-213 cells.

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

References

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4. Fabre, S., et al., *J. Biol. Chem.*, **280**, 19543-19550 (2005).
5. Takano, A., et al., *Cancer Res.*, **69**, 6694-6703 (2009).
6. Fabre-Lafay, S., et al., *BMC Cancer*, **7**, 73-88 (2007).
7. Derycke, M.S., et al., *Am. J. Clin. Pathol.*, **134**, 835- 845 (2010).
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