

## 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).<sup>1</sup> 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 Ca<sup>2+</sup>-independent manner, causing cell-cell adhesion. These proteins are one of the plasma membrane components of adherens junctions.<sup>2</sup> 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.<sup>3-5</sup> 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.<sup>4-7</sup> Furthermore, mutations in this gene were suggested to result in ectodermal dysplasia-syndactyly syndrome type 1, an autosomal recessive disorder.<sup>8</sup>

## 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 1x10<sup>6</sup> 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.

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## References

1. Fabre, S., et al., *J. Biol. Chem.*, **277**, 27006-27013 (2002).
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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).
8. Brancati, F., et al., *Am. J. Hum. Genet.*, **87**, 265-273 (2010).

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