



K-Cadherin/Cadherin-6 (2B6)

CATALOG NUMBER: MUB0305S

CLONE: 2B6

SPECIES / ISOTYPE: mouse IgG1

PRODUCT FORM: culture supernatant of monoclonal antibody

BACKGROUND

Cadherins constitute a family of transmembrane glycoproteins involved in Ca^{2+} -dependent cell-cell interactions. The members of this family are differentially expressed in various tissues. They function in the maintenance of tissue integrity and morphogenesis. The cadherins generally contain five extracellular repeats, a transmembrane domain and a cytoplasmic tail that binds to the catenin family of cytoskeletal anchoring proteins which also function as signal transducers. The extracellular domains are responsible for the specificity of homophilic interactions between cells expressing the same cadherin. Cadherins are divided into type I and type II subgroups. Type I cadherins include epithelial cadherin (E-cadherin, cadherin-1 or uvomorulin), neural cadherin (N-cadherin or cadherin-2), placental cadherin (P-cadherin or cadherin-3) and retinal cadherin (R-cadherin or cadherin-4). Kidney cadherin (K-cadherin or cadherin-6) and osteoblast cadherin (OB-cadherin or cadherin-11) are type II cadherins. Cadherin-6 is expressed in the proximal tubule epithelium of the kidney from which most renal cell carcinomas are derived.

SOURCE

2B6 is a mouse monoclonal IgG1 antibody obtained by fusion of SP2/0 mouse myeloma cells with spleen cells from a BABL/c mouse immunized with affinity purified extracellular domain of human cadherin-6-GST fusion protein.

PRODUCT

Each vial contains 1 ml of culture supernatant of monoclonal antibody containing 0.09% sodium azide.

SPECIFICITY

2B6 recognizes the extracellular domain of cadherin-6.

2B6 is suitable for immunoblotting, immunocytochemistry and immunohistochemistry on frozen sections when using a PBS buffer containing 0.1 mM CaCl_2 and 0.1 mM MgCl_2 . Optimal antibody dilution should be determined by titration for immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC)

as detection reagent, and for immunoblotting applications.

SPECIES REACTIVITY

Human and rat.

STORAGE

Store at 4°C, or in small aliquots at -20°C.

REFERENCES

1. Shimazui, T., Oosterwijk, E., Akaza, H., Bringuier, P., Ruijter, E., van Berkel, H., Wakka, J. O., van Bokhoven, A., Debruyne, F. M., and Schalken, J. A. (1998). Expression of cadherin-6 as a novel diagnostic tool to predict prognosis of patients with E-cadherin-absent renal cell carcinoma, *Clin Cancer Res* 4, 2419-24.
2. Shimazui, T., Oosterwijk-Wakka, J., Akaza, H., Bringuier, P. P., Ruijter, E., Debruyne, F. M., Schalken, J. A., and Oosterwijk, E. (2000). Alterations in expression of cadherin-6 and E-cadherin during kidney development and in renal cell carcinoma, *Eur Urol* 38, 331-8.

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WARNING and CAUTION

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals.

This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water.

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