

Product datasheet

anti-Cadherin 6 mouse monoclonal, 2B6, supernatant

Short overview

Cat. No.	16111
Quantity	1 ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1
Clone	2B6
Immunogen	GST fusion protein of part of the extracellular domain of cadherin 6 (K-Cadherin)
Formulation	Contains 0.09% sodium azide
UniprotID	P55285 (Human)
Synonym	Cadherin-6, Kidney cadherin, K-cadherin, CDH6
Note	Centrifuge prior to opening
Conjugate	Unconjugated
Purification	Hybridoma cell culture supernatant
Storage	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
Intended use	Research use only
Application	IHC
Reactivity	Human

Applications

Immunohistochemistry (IHC) - frozen	Ready-to-use (paraformaldehyde fixed; with 0.2% Triton X-100 in PBS)
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Background

The cadherin gene family encodes calcium-dependent adhesion molecules that promote homophilic interactions among cells. All cadherins are single-pass transmembrane proteins with a variable number of extracellular domains (EC; 110 amino acids long). Classical cadherins consist of five EC domains and a conserved cytoplasmic domain and are divided in type I and type II subgroups. Type I comprises cadherin E, N, P, and R. Type II include cadherin-5, -6, -8, -11, and -12. During embryogenesis differential expression of cadherins can drive morphogenesis by stimulating cell aggregation, defining boundaries between groups of cells and promoting cell migration. Cadherin-6 seems to be required for the early aggregation of induced mesenchymal cells and their subsequent conversion to epithelium.

Positive control: Embryonic kidney (e.g. establishment of developmental pattern of nephrons)

Product images



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References

Publication	Species	Application
Domke, L and Franke, W. The cell-cell junctions of mammalian testes..., Cell Tissue Res, 375, 451-482, (2019)	bovine	ICC-IF
Shimazui, T. et al. 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, 2419â€“24 (1998).	human	WB,ICC