

Product datasheet

anti-p0071 mouse monoclonal, 7.7.9, supernatant

Short overview

Cat. No.	651165
Quantity	5 ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1
Clone	7.7.9
Immunogen	Synthetic peptide of human p0071 (aa position 85-104: EKSFPWRSTDVNTGVSKPR)
Formulation	Contains 0.09% sodium azide
UniprotID	Q99569 (Human)
Synonym	Plakophilin-4, p0071, PKP4
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	ICC/IF, IHC, WB
Reactivity	Bovine, Human

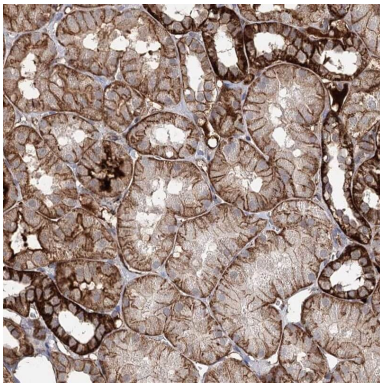
Applications

Immunocytochemistry (ICC)	Ready-to-use
Immunohistochemistry (IHC) - frozen	Ready-to-use
Immunohistochemistry (IHC) - paraffin	Ready-to-use (microwave treatment recommended)
Western Blot (WB)	1:10-1:50

Background

Detects a plaque protein (p0071) specific for a subtype of adherens junctions, with a molecular mass of 135 kDa and is closely related to neurojunlin / delta-catenin and ARVC (all belonging to the p120 armadillo subfamily). p0071 is specifically detected in the plaques of the composite junctions (area compositae) of cardiac intercalated disks, in puncta adhaerentia of single- and multi-layered epithelia and blood vessel endothelial cells.; it is, however, absent from desmosomes. This protein was also described as plakophilin 4. Reactivity on cultured cell lines: MCF-7, A431, CaCo-2, HT-29, PLC, 16HBE14o, HaCaT, SV80, U333 CG, 3T3, RVF-SMC, MH1C1 Positive control: MCF-7 cells

Product images



p0071 staining on human kidney (courtesy of The Human Protein Atlas, www.proteinatlas.org, Thul PJ et al, 2017. A subcellular map of the human proteome. Science)

References

Publication	Species	Application
Domke, L and Franke, W. The cell-cell junctions of mammalian testes..., Cell Tissue Res, 375, 451-482, (2019)	pig	ICC-IF
Hofmann, I., Schlechter, T., Kuhn, C., Hergt, M. & Franke, W. W. Protein p0071 - an armadillo plaque protein that characterizes a specific subtype of adherens junctions. J. Cell Sci. 122, 21â€“24 (2009).	human	WB,IHC (frozen)
Hofmann, I., Kuhn, C. & Franke, W. W. Protein p0071, a major plaque protein of non-desmosomal adhering junctions, is a selective cell-type marker. Cell Tissue Res. 334, 381â€“399 (2008).	human	IHC (frozen),IEM