

Product datasheet

anti-p0071, Multi-Epitope Cocktail mouse monoclonal,
406.3.1 + 433.10.3 + 7.7.9, supernatant

Short overview

Cat. No.	651166
Quantity	5 ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1
Clone	406.3.1 + 433.10.3 + 7.7.9
Immunogen	Synthetic peptides of human p0071
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, Mouse

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 kD and is closely related to neurojungin / 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



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References

Publication	Species	Application
Abreu-Velez, A. et al. Involvement of the Areae Compositae of the Heart in Endemic Pemphigus Foliaceus. Dermatol.Pract.Concept. 9, 181-186 (2019)	human	IHC-IF (frozen)
Abreu-Velez, A. et al. Patients affected by endemic pemphigus foliaceus in Colombia, South America exhibit autoantibodies to optic nerve sheath envelope cell junctions. Dermatol.Pract.Concept. 8, 1-6 (2018).	human	ICC-IF
Abreu-Velez, A. et al. Subclinical oral involvement in patients with endemic pemphigus foliaceus. Dermatol.Pract.Concept. 8, 252-261 (2018).	human	IHC-IF (frozen)
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