

# Product datasheet

## anti-p0071 mouse monoclonal, 7.7.9, supernatant

### Short overview

<b>Cat. No.</b>	651165
<b>Quantity</b>	5 ml

### Product description

<b>Host</b>	Mouse
<b>Antibody Type</b>	Monoclonal
<b>Isotype</b>	IgG1
<b>Clone</b>	7.7.9
<b>Immunogen</b>	Synthetic peptide of human p0071 (aa position 85-104: EKSFPWRSTDVNTGVSKPR)
<b>Formulation</b>	Contains 0.09% sodium azide
<b>UniprotID</b>	Q99569 (Human)
<b>Synonym</b>	Plakophilin-4, p0071, PKP4
<b>Conjugate</b>	Unconjugated
<b>Purification</b>	Hybridoma cell culture supernatant
<b>Storage</b>	Short term at 2-8°C; long term storage in aliquots at -20°C; avoid freeze/thaw cycles
<b>Intended use</b>	Research use only
<b>Application</b>	ICC/IF, IHC, WB
<b>Reactivity</b>	Bovine, Human

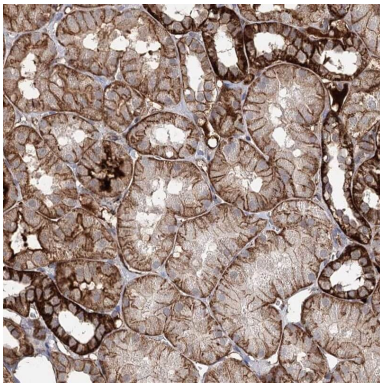
### Applications

<b>Immunocytochemistry (ICC)</b>	Ready-to-use
<b>Immunohistochemistry (IHC) - frozen</b>	Ready-to-use
<b>Immunohistochemistry (IHC) - paraffin</b>	Ready-to-use (microwave treatment recommended)
<b>Western Blot (WB)</b>	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 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



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

## References

Publication	Species	Application
<a href="#">Domke, L and Franke, W. The cell-cell junctions of mammalian testes... Cell Tissue Res. 375, 451-482, (2019)</a>	pig	ICC-IF
<a href="#">Hofmann, I., Schlechter, T., Kuhn, C., Hergt, M. &amp; Franke, W. Protein p0071 - an armadillo plaque protein that characterizes a specific subtype of adherens junctions. J. Cell Sci. 122, 21â€“24 (2009).</a>	human	WB,IHC (frozen)
<a href="#">Hofmann, I., Kuhn, C. &amp; 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).</a>	human	IHC (frozen),IEM