Product datasheet

anti-Plakophilin 2 guinea pig polyclonal, serum

Short overview

Cat. No.	GP-PP2
Quantity	100 µl

Product description

Host	Guinea pig
Antibody Type	Polyclonal
Immunogen	Human synthetic plakophilin 2 (C-terminal aa 820-8 37)
Formulation	Contains 0.09% sodium azide and 0.5% BSA
UniprotID	A0A3Q1M2G3 (Bovine), Q99959 (Human), Q9CQ73 (Mouse), A0A4X1VWB0 (Pig), H0VL79 (Guinea pig), Q562C0 (Rat)
Synomym	Plakophilin-2, PKP2
Note	Centrifuge prior to opening
Conjugate	Unconjugated
Purification	Stabilized antiserum
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, Pig, Rat
No reactivity	Amphibia, Fish

Applications

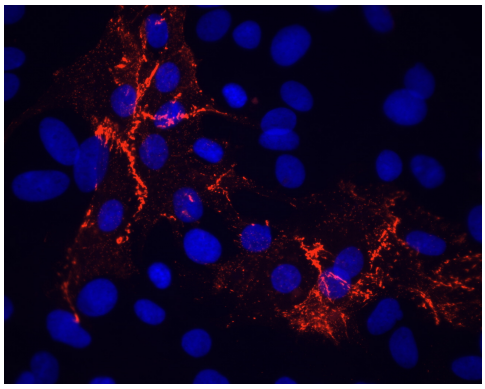
Immunocytochemistry (ICC)	Assay dependent
Immunohistochemistry (IHC) - frozen	1:100 (preincubated for 5 min with 0.2% Triton X-100 prior to antibody application recommended; longer incubation could result in a loss of nuclear PP2-staining; fixation with 2% formaldehyde to prevent wash-out of soluble forms)
Immunohistochemistry (IHC) - paraffin	1:100 (microwave treatment recommended)
Western Blot (WB)	Assay dependent

Background

PP2 antiserum stains specifically desmosomal plaques present in simple and glandular epithelia, the basal layer of certain stratified epithelia, all layers of some stratified epithelia, and desmosome-possessing nonepithelial cells such as myocardium, Purkinje fibers, and dendritic reticulum of lymph node follicles. In all these cells, including a variety of cell types devoid of desmosomes, plakophilin 2 is highly enriched in the karyoplasm. Polypeptide reacting: plakophilin 2, Mr ~100 kDa (SDS-PAGE); MW calculated from aa sequence: 92,750 (pI 9.33) and 97,410 (pI 9.38).

Reactivity on cultured cell lines: MCF-7, PLC.

Product images



Rat primary cardiomycytes (courtesy of L. Langbein)

References

Publication	Species	Application
Fischer-KeÅ¡o, R. et al. Plakophilins 1 and 3 bind to FXR1 and thereby influence the mRNA stability of desmosomal proteins. Mol. Cell. Biol. 34, 4244â€“56 (2014).	human	WB
Rickelt, S. Plakophilin-2: a cell-cell adhesion plaque molecule of selective and fundamental importance in cardiac functions and tumor cell growth. Cell Tissue Res. 348, 281â€“94 (2012).	human,mouse,bovine,pig	IHC (frozen),ICC-IF
Rickelt, S. et al. A novel kind of tumor type-characteristic junction: plakophilin-2 as a major protein of adherens junctions in cardiac myxomata. Mod. Pathol. 23, 1429â€“1437 (2010).	human	WB,IHC (paraffin),ICC-IF