Product datasheet

anti-Plakophilin 1 mouse monoclonal, PP1-2D6, supernatant

Short overview

Cat. No.	65161
Quantity	5 ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1
Clone	PP1-2D6
Immunogen	Plakophilin 1 ("band 6 polypeptide" of bovine muzzle epidermis)
Formulation	Contains 0.09% sodium azide
UniprotID	Q28161 (Bovine), E1C1N1 (Chicken), Q13835 (Human), I3LGN8 (Pig), H0VCU0 (Guinea pig)
Synomym	Plakophilin-1, Band 6 protein, B6P, PKP1
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	ELISA, IHC, WB
Reactivity	Bovine, Chicken, Human, Pig

Applications

ELISA	Assay dependent
Immunohistochemistry (IHC) - frozen	Ready-to-use (preincubation (directly after fixation) with 0.05-0.2% Triton X-100, for 5-10 min recommended; for delicate tissues like liver and gastrointestinal material preincubation with saponin is preferred)
Western Blot (WB)	Assay dependent

Background

Antibody recognizes plakophilin 1 in diverse stratified epithelia, in complex epithelia (e.g. urothelium of the bladder and tracheal epithelium) and in glandular duct epithelia; squamous cell carcinoma are positive, whereas all adenocarcinoma tested so far are negative.

Polypeptide reacting: Plakophilin 1: calculated mol. wt. 80,496 (human) and 80,180 (bovine).

Reactivity on human cultured cell lines: HaCaT, A-431.

Product images



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References

Publication	Species	Application
Rickelt, S., Winter-Simanowski, S., Noffz, E., Kuhn, C. & Franke, W. W. Upregulation of plakophilin-2 and its acquisition to adherens junctions identifies a novel molecular ensemble of cell-cell-attachment characteristic for transformed mesenchymal cells	human	WB
Hofmann, I. et al. Interaction of plakophilins with desmoplakin and intermediate filament proteins: an in vitro analysis. J. Cell Sci. 113, 2471â€“83 (2000).	human	IP,IEM
Moll, I., Kurzen, H., Langbein, L., Erner, W. & Franke, W. The Distribution of the Desmosomal Protein, Plakophilin 1, in Human Skin and Skin Tumors. J. Invest. Dermatol. 108, 139â€“146 (1997).	human	IHC (frozen)
Heid, H. W. et al. Cell typespecific desmosomal plaque proteins of the plakoglobin family: plakophilin 1 (band 6 protein). Differentiation 58, 113â€“131 (1995).	bovine	WB