

Product datasheet

anti-Plakophilin 1 mouse monoclonal, PP1-5C2, supernatant

Short overview

Cat. No.	65160
Quantity	5 ml

Product description

Host	Mouse
Antibody Type	Monoclonal
Isotype	IgG1
Clone	PP1-5C2
Immunogen	Plakophilin 1 ("band 6 polypeptide" of bovine muzzle epidermis)
Formulation	Contains 0.09% sodium azide
UniprotID	Q28161 (Bovine), Q13835 (Human), P97350 (Mouse), I3LGN8 (Pig), D3ZY51 (Rat)
Synonym	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, Human, Mouse, Pig, Rat

Applications

ELISA	Assay dependent
Immunohistochemistry (IHC) - frozen	Undiluted-1:50 (preincubation 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)
Immunohistochemistry (IHC) - paraffin	Undiluted-1:50 (pretreatment with 0.001% trypsin and microwave treatment recommended)
Western Blot (WB)	Assay dependent

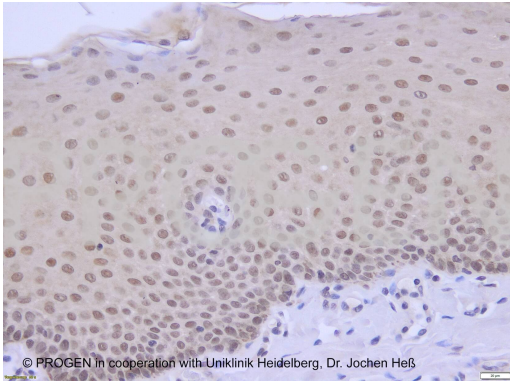
Background

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.

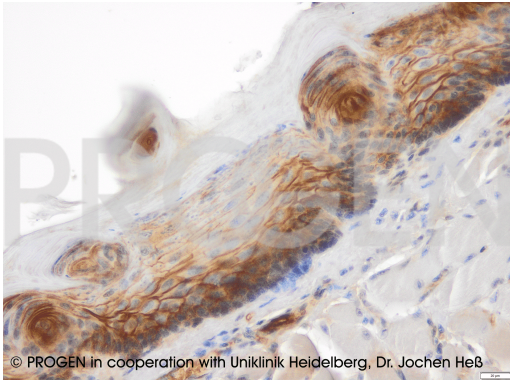
Polypeptide reacting: Plakophilin 1: calculated mol. wt. 80,496 (human) and 80,180 (bovine).

Reactivity on human cultured cell lines: HaCaT, A-431, BPH-1 (derived from non-neoplastic prostatic tissue).

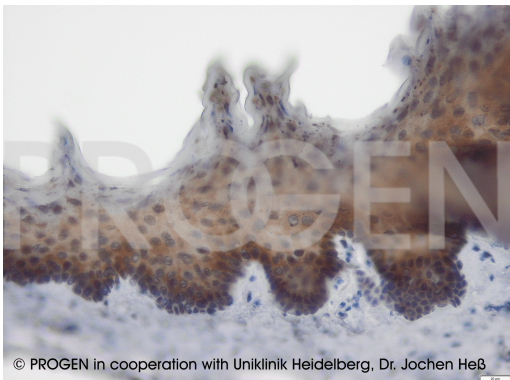
Product images



IHC of human oral mucosa (© PROGEN in cooperation with Uniklinik Heidelberg, Dr. Jochen Heß)



IHC of mouse tongue (courtesy of J.Heß, University Hospital Heidelberg)



IHC of rat tongue (courtesy of J.Heß, University Hospital Heidelberg)

References

Publication	Species	Application
Kim, M. et al. Plakophilin 1 deficiency in prostatic tumours is correlated with immune cell recruitment and controls the up-regulation of cytokine expression post-transcriptionally. FEBS J. (2022).	human	WB, IHC-IF (paraffin)