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Product datasheet for AM09123SU-N

Plakophilin 3 (PKP3) Mouse Monoclonal Antibody [Clone ID: PKP3-270.6.2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	PKP3-270.6.2
Applications:	IF, IHC, WB
Recommended Dilution:	Immunoblotting: 1/500 ECL method. Immunofluorescence. Immunohistochemistry on frozen sections: Ready-to-use.
Reactivity:	Bovine, Human, Mouse, Xenopus
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant protein (E. coli) of human plakophilin 3
Specificity:	This antibody reacts to Plakophilin 3. **Positive tissues and culture cells:** - stratified squamous epithelia: palmar, epidermis, scalp skin - stratified epithelia: tongue, vagina, esophagus - transitional epithelia: bladder - non-stratified epithelia: colon, duodenum, pancreas, several glands - non-epithelial: reticulum cells of lymph node follicle - HaCaT, MCF7, HeLa, HT-29, CaCo 2, Caski, BMGE, MDCK and other **Negative tissues and cell lines:** - liver, heart, skeletal muscle, endothelia (vessels) - PLC, RD, SV80, HL60, Raji, Jok1, Glioma, K562, 3T3L1, A6, PtK2
Formulation:	State: Supernatant State: Liquid culture supernatant
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.

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Gene Name:	plakophilin 3
Database Link:	Entrez Gene 56460 MouseEntrez Gene 11187 Human Q9Y446
Background:	Plakophilin 3 is an Armadillo-like protein present in nuclei and desmosomes of epithelial cells. The expression pattern of this protein seems to be largely restricted to epithelial cell types. Plakophilin-3 can be detected along cell borders in a punctuate staining pattern typical for desmosomal proteins. In addition to the desmosomal immunolocalisation, immunostaining was observed as bright nuclear speckles. Thus, like plakophilin-1 and-2, plakophilin-3 displays a dual intracellular localisation in the desmosomal plaque and in the cell nucleus, and therefore is probably involved in signal transduction pathways between the plasma membrane and the nucleus. The human protein has a predicted molecular mass of 87 kD.
Synonyms:	Plakophilin-3