

## Product datasheet for **AM09134SU-N**

### Plakophilin 2 (PKP2) (527-872) Mouse Monoclonal Antibody [Clone ID: Pkp2-518]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	Pkp2-518
Applications:	EM, IHC, IP, WB
Recommended Dilution:	<b>Western Blot.</b> <b>Immunoprecipitation.</b> <b>Immunoelectron Microscopy.</b> <b>Immunohistochemistry on Frozen and Paraffin-Embedded Sections</b> (after microwave treatment). For better accessibility of the desmosome-associated antigen frozen sections might be pre-incubated for 5 min in PBS plus 0.2% Triton X-100 prior to antibody application. Longer incubation could result in a loss of Pkp2-nuclear staining. To prevent wash-out of soluble forms of the antigen, fixation with 2% formaldehyde is recommended. <b>Working Dilution:</b> Ready-to-use for Immunohistochemistry <b>Tested Reactivities on Cultured Cell Lines</b> Human: HaCaT, PLC, MCF-7 Human, Bovine, Ovine cardiac myocytes.
Reactivity:	Bovine, Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic Carboxy-terminal peptide (aa 527-872) of Human Plakophilin 2.
Specificity:	This monoclonal antibody reacts with Plakophilin 2 in both locations: in the desmosomal plaque and in the karyoplasm. <b>Tumors Specifically Detected:</b> Positive staining was obtained with several carcinomas derived from simple-type epithelia (e.g. hepatomas, colon carcinomas) and some adenocarcinomas derived from stratified epithelia (oesophagus carcinoma).
Formulation:	State: Supernatant State: Liquid Hybridoma Culture Supernatant Preservative: 0.09% Sodium Azide
Conjugation:	Unconjugated



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<b>Storage:</b>	Store the antibody undiluted at 2-8°C.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Gene Name:</b>	plakophilin 2
<b>Database Link:</b>	<a href="#">Entrez Gene 5318 Human Q99959</a>
<b>Background:</b>	Plakophilin 2 is a member of the arm-repeat family of proteins which can occur in at least 2 splice forms (2a and 2b). Plakophilin 2 assembles with other proteins to form the desmosomal plaque in simple and glandular epithelia, the basal layer of certain stratified epithelia, all layers of some stratified epithelia, and desmosomepossessing 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.
<b>Synonyms:</b>	PKP2
<b>Note:</b>	Mr ~100 kD (SDS-PAGE) MW calculated from aa sequence: 92,750 (pI 9.33) and 97,410 (pI 9.38).