

## 36-2945: Anti-Plakophilin-1 (PKP1) Monoclonal Antibody(Clone: 10B2)

|                                |   |
|--------------------------------|---|
| <b>Clonality :</b>             | Monoclonal  |
| <b>Clone Name :</b>            | 10B2  |
| <b>Application :</b>           | FACS, IF, WB  |
| <b>Reactivity :</b>            | Human, Mouse  |
| <b>Gene :</b>                  | PKP1  |
| <b>Gene ID :</b>               | 5317  |
| <b>Uniprot ID :</b>            | Q13835  |
| <b>Alternative Name :</b>      | B6P; Band 6 protein; PKP1; Plakophilin-1 (ectodermal dysplasia/skin fragility syndrome) |
| <b>Isotype :</b>               | Mouse IgG1, kappa   |
| <b>Immunogen Information :</b> | N-terminus of human Plakophilin-1 protein   |

### Description

Recognizes a protein of 75kDa, identified as Plakophilin-1. Its epitope maps between aa 1-27 human Plakophilin-1. Plakophilins 1, 2, 3 and 4 (PKP1-4) influence development and participate in linking cadherins to cytoskeletal intermediate filaments. Plakophilins 1-4 contain arm-repeat (armadillo) domains and localize to nuclei and cell desmosomes (cell-cell junctions found in suprabasal layers of stratifying epithelia that undergo mechanical stress). Plakophilin 2 is important for desmosome assembly and is an essential morphogenic factor and architectural component of the heart.

### Product Info

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 20 µg / 100 µg  |
| <b>Content :</b>           | 200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml. |
| <b>Storage condition :</b> | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.                               |

### Application Note

Flow Cytometry (0.5-1.0 µg/million cells); Immunofluorescence (1-2.0 µg/ml); Western Blot (0.5-1.0 µg/ml) Optimal dilution for a specific application should be determined.

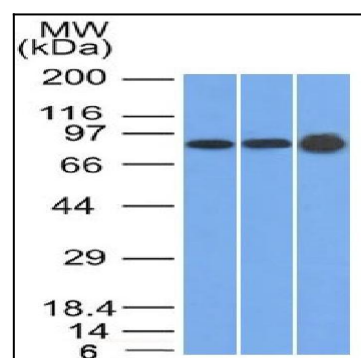


Fig. 1: Western Blot of U87, HeLa and A431 cell lysates using Plakophilin-1 Mouse Monoclonal Antibody (10B2)

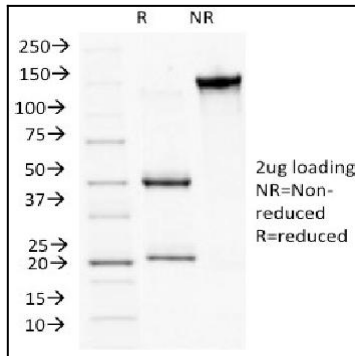


Fig. 2: SDS-PAGE Analysis Purified CD56 Monoclonal Antibody (NCAM1/784).  
Confirmation of Integrity and Purity of Antibody