Datasheet for ABIN968178

# anti-Plakophilin 2 antibody (AA 19-183)

4 Images | 1 Publication

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## Overview

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|---|---|
| Quantity: | 50 µg |
| Target: | Plakophilin 2 (PKP2) |
| Binding Specificity: | AA 19-183 |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This Plakophilin 2 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunoprecipitation (IP) |

## Product Details

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|---|---|
| Immunogen: | Human Plakophilin 2a aa. 19-183 |
| Clone: | 28-Plakophilin |
| Isotype: | IgG1 |
| Characteristics: | 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.<br>2. Please refer to us for technical protocols.<br>3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.<br>4. Source of all serum proteins is from USDA inspected abattoirs located in the United States. |
| Purification: | The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity |

 

## Product Details

chromatography.

## Target Details

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|---|---|
| Target: | Plakophilin 2 (PKP2) |
| Alternative Name: | Plakophilin 2 (PKP2 Products) |
| Background: | Plakophilin 2 is a desmosomal plaque protein that belongs to the arm repeat family of proteins. Alternative splicing results in two isoforms: 2a (837 aa) and 2b (881 aa). The 2b isoform contains an insertion of 44 aa in the arm repeat unit 2. Other arm family members are ß-catenin, plakophilin 1, plakoglobin, pp120, and armadillo of Drosophila gene product. They have at least 9 repeats of the arm motif, which consists of approximately 42 aa, and a short carboxyl terminus. Plakophilins are constitutively expressed in desmosome-containing cells. Plakophilin 1 has been found only in desmosomal-containing cells, such as stratified and complex epithelia. Plakophilin 2 has been isolated from both desmosomal as well as non-desmosomal forming cells, including simple and glandular epithelia, and from nonepithelial tissues such as the mycocardium and Purkinje fibers. In addition, Plakophilin 2 is found in the karyoplasm of interphase cells. Plakophilins 2a and 2b are part of desmosomal plaques, although they are located primarily in the karyoplasm of the interphase nucleus. The function of nuclear plakophilin 2 remains to be identified. |
| Molecular Weight: | 100 kDa |
| Pathways: | Cell-Cell Junction Organization, SARS-CoV-2 Protein Interactome, The Global Phosphorylation Landscape of SARS-CoV-2 Infection |

## Application Details

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|---|---|
| Comment: | Related Products: ABIN968587, ABIN967389 |
| Restrictions: | For Research Use only |

## Handling

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|---|---|
| Format: | Liquid |
| Concentration: | 250 µg/mL |
| Buffer: | Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide. |
| Preservative: | Sodium azide |

## Handling

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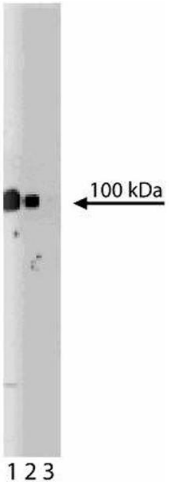
|---|---|
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C |
| Storage Comment: | Store undiluted at -20° C. |

## Publications

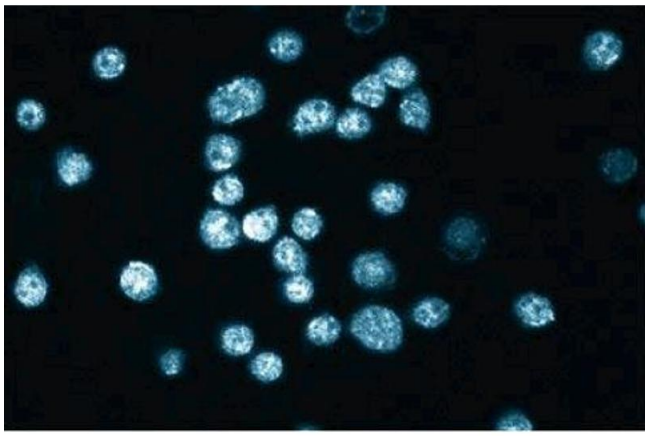
| | |
|---|---|
| Product cited in: | Mertens, Kuhn, Franke: "Plakophilins 2a and 2b: constitutive proteins of dual location in the karyoplasm and the desmosomal plaque." in: **The Journal of cell biology**, Vol. 135, Issue 4, pp. 1009-25, (1997) (PubMed). |

## Images




**Western Blotting**

**Image 1.** Western blot analysis of Plakophilin 2 on a HepG2 cell lysate (Human hepatocellular carcinoma, ATCC HB-8065). Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti-human Plakophilin 2 antibody.

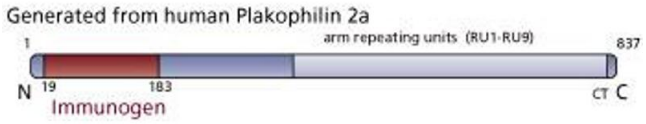


**Immunofluorescence**

**Image 2.** Immunofluorescence staining of HL-60 cells (Human promyelocytic leukemia, ATCC CCL-240).

**Image 3.**




Please check the product details page for more images. Overall 4 images are available for ABIN968178.