

Datasheet for ABIN335358
anti-Plakophilin 3 antibody**2** Images**1** Publication[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	Plakophilin 3 (PKP3)
Reactivity:	Human, Mouse, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Plakophilin 3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro)), Immunocytochemistry (ICC), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	23E3/4 is a mouse monoclonal IgG2b antibody derived by fusion of mouse myeloma cells with spleen cells from a mouse immunized with a synthetic peptide corresponding to amino acid residues 570-589 of human plakophilin-3 coupled to keyhole limpet hemocyanin via an additional cysteine residue at the N-terminus (CFTPQSRRLRELPLAADALTF).
Clone:	23E3-4
Isotype:	IgG2b
Specificity:	Human, mouse and dog.
Purification:	Purified

Target Details

Target: Plakophilin 3 (PKP3)

Alternative Name: Plakophilin-3 ([PKP3 Products](#))

Background: Plakophilin-3 is an Armadillo-like protein present in nuclei and desmosomes of epithelial cells [1]. 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.

Application Details

Application Notes: 23E3/4 reacts with an epitope located between residues 570-589 in human plakophilin-3. 23E3/4 is suitable for immunocytochemistry (methanol- and paraformaldehyde-fixed cells), immunohistochemistry on frozen and paraffin-embedded tissues, immunoprecipitation and Western blot detection. For optimal results, fixed cells and frozen tissues should be treated with 0.2% Triton-X 100 for, respectively, 5 min and 15 min prior to incubation with primary antibody. Optimal antibody dilution should be determined by titration, recommended range is 1:25 - 1:200 for immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1:100 - 1:1000 for immunoblotting applications.

Restrictions: For Research Use only

Handling

Storage: 4 °C

Publications

Product cited in: Bonn , van Hengel, Nollet, Kools, van Roy: "Plakophilin-3, a novel armadillo-like protein present in nuclei and desmosomes of epithelial cells." in: **Journal of cell science**, Vol. 112 (Pt 14), pp. 2265-76, (1999) ([PubMed](#)).

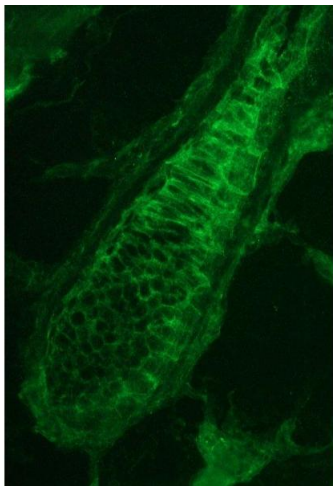


Image 1.

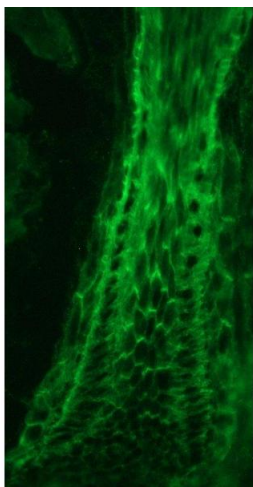


Image 2.