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Mouse anti Plakophilin-3

Catalogue number: **MUB1502P**

Clone	12B11F8
Isotype	IgG2a
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse
Species reactivity	Dog Human Mouse Swine Xenopus
Application	Immunoblotting Immunocytochemistry Immunohistochemistry (frozen) Immunoprecipitation

Distributors

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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.

Source

12B11F8 is a mouse monoclonal IgG2a antibody derived by fusion of mouse myeloma cells with spleen cells from a mouse immunized with a synthetic peptide corresponding to the extreme carboxyterminal amino acid residues 779-793 (KLHRDFRAKGYRKED) of human plakophilin-3 coupled to keyhole limpet hemocyanin

Product

Each vial contains 100 ul 1 mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

Applications

12B11F8 is suitable for immunocytochemistry (methanol-fixed cells), immunohistochemistry on frozen tissues, immunoprecipitation and Western blot detection. For frozen tissues use a PBS buffer containing 0.1 mM CaCl₂ and 0.1 mM MgCl₂. For optimal results, fixed cells or tissues should be treated with 0.2% Triton-X 100 for 15 min. prior to incubation with primary antibody. Optimal antibody dilution should be determined by titration; recommended range is 1:25 – 1:100 for immunohistochemistry with avidin-biotinylated horseradish peroxidase complex (ABC) as detection reagent, and 1:100 – 1:1000 for immunoblotting applications.

Specificity

12B11F8 reacts with an epitope located between residues 779-793 in Human plakophilin-3.

Storage

Store at 4°C, or in small aliquots at -20°C.

References

1. Bonn , S., van Hengel, J., Nollet, F., Kools, P., and van Roy, F. (1999). Plakophilin-3, a novel armadillo-like protein present in nuclei and desmosomes of epithelial cells. *J Cell Sci* 112, 2265-2276.
2. Bonn , S., Gilbert, B., Hatzfeld, M., Chen, X., Green, K.J., van Roy, F. (2003). Defining desmosomal plakophilin-3 interactions. *J Cell Biol* 161,2, 403-416.

Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.