Datasheet for ABIN335354

anti-PARK7/DJ1 antibody

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Overview

Quantity:	0.1 mg
Target:	PARK7/DJ1 (PARK7)
Reactivity:	Human, Mouse, Dog, Xenopus laevis
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PARK7/DJ1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunocytochemistry (ICC), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	12B11F8 is a mouse monoclonal IgG1 antibody derived by fusion of mouse myeloma cells with spleen cells from a mouse immunized with a synthetic peptide corresponding to amino acid residues 779-793 of human plakophilin-3 coupled to keyhole limpet hemocyanin. (KLHRDFRAKGYRKED).
Clone:	12B11F8
Isotype:	IgG1
Specificity:	Human, mouse, dog and Xenopus laevis.
Purification:	Serum

Target Details

Target:	PARK7/DJ1 (PARK7)

Target Details

Alternative Name:	PARK7 / DJ-1 (PARK7 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.
Pathways:	Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling, Proton Transport

Application Details

Application Notes:	12B11F8 reacts with an epitope located between residues 779-793 in human plakophilin-3. 12B11F8 is suitable for immunocytochemistry (methanol-fixed cells), immunohistochemistry on frozen tissues, immunoprecipitation and Western blot detection. For optimal results, fixed cells or tissues should be treated with 0.2% Triton-X 100 for 5 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:	Bonné, Gilbert, Hatzfeld, Chen, Green, van Roy: "Defining desmosomal plakophilin-3 interactions. " in: **The Journal of cell biology**, Vol. 161, Issue 2, pp. 403-16, (2003) (PubMed). Bonné, 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).