

Anti-Plakophilin 1 [10B2] Bulk Size Ab01693-23.0-BT

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rabbit IgG, Kappa

Clone Number: 10B2

Alternative Name(s) of Target: PKP1; PKP-1; Plakophilin-1; Band 6 protein; B6P; PKP 1

UniProt Accession Number of Target Protein: Q13835

Published Application(s): IP, WB, FC, IF, IHC

Published Species Reactivity: Human, Mouse

Immunogen: This antibody was raised by immunizing mice with the N-terminus of human Plakophilin-1 protein.

Specificity: This antibody recognizes Plakophilin-1. It binds the epitope within the first 27 amino acids from the N-terminal region and it does not cross react with Plakophilin 2 and Plakophilin 3. Plakophilins influence development and participate in linking cadherins to cytoskeletal intermediate filaments. Plakophilin-1 is thought to play a role in junctional plaques and contribute to epidermal morphogenesis.

Application Notes: 10B2 is recommended for the detection and analysis of Plakophilin-1. In order to identify potential perturbations in cell adherence, this antibody was used to detect plakophilin-1 in the skin tissue of patients with epidermolysis bullosa via immunofluorescence (Pigors et al., 2011; pmid: 21320868). Further, this antibody was demonstrated to have a potential diagnostic role in certain diseases, such as Ectodermal Dysplasia/Skin Fragility Syndrome where it was used to differentiate between a diseased and healthy skin samples (Sprecher et al., 2004; pmid: 15086548). It was also shown that 10B2 antibody can detect plakophilin-1 (PKP1) via Western blot (here: in HaCaT protein lysates) (Bonne et al., 2003; pmid: 12707304).

Antibody First Published in: Bonne et al. Defining desmosomal plakophilin-3 interactions J Cell Biol. 2003 Apr 28;161(2):403-16. doi:10.1083/jcb.200303036. Epub 2003 Apr 21. [PMID:12707304](#)

Note on publication: This article describes the earliest characterization and usage of this anti-plakophilin 1 antibody.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification:

Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.