



Qty: 100 µg/200 µl

Mouse anti-Plakophilin-3

Catalog No. 35-7600

Lot No.

Mouse anti-Plakophilin-3

FORM

This monoclonal antibody is supplied as a 200 µl aliquot at a concentration of 0.5 mg/ml in PBS, pH 7.4, containing 0.1% sodium azide. This antibody is highly purified from mouse ascites by protein A chromatography.

CLONE: 23E3/4

ISOTYPE: Mouse IgG_{2b}

IMMUNOGEN

Synthetic peptide from Armadillo domain of human Plakophilin-3.

SPECIFICITY

This antibody reacts with the 87 kDa human Plakophilin-3. There is no cross reactivity with human Plakophilin-1 and Plakophilin-2 proteins.

REACTIVITY

Reactivity is confirmed with human A431 cells, and HEK293 cells transfected with plasmid expressing human Plakophilin-3. Based on sequence homology, this antibody is expected to react with mouse and dog.

Sample	ELISA	Immuno-precipitation (native)	Immuno-fluorescence	Western Blotting	Immunohisto-chemistry (FFPE)
Human	+++	+++	+++	+++	+++
Immunogen	+++	ND	ND	ND	ND

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable N/A, Not Determined ND)

USAGE

Working concentrations for specific applications should be determined by the investigator. Appropriate concentrations will be affected by several factors, including secondary antibody affinity, antigen concentration, sensitivity of detection method, temperature and length of incubations, etc. The suitability of this antibody for applications other than those listed below has not been determined. The following concentration ranges are recommended starting points for this product.

ELISA: 0.1-1 µg/ml
Immunoprecipitation: 10 µg/IP reaction
Immunohistochemistry: 10 µg/ml
Immunofluorescence: 1-3 µg/ml
Western Blotting: 1-3 µg/ml

Note: Immunofluorescent assays were performed using methanol-fixed HCT8/E8 and paraformaldehyde-fixed HaCat cells. For optimal IF results, methanol and paraformaldehyde-fixed cells should be permeabilized with 0.2% Triton X-100 for 5 and 15 minutes, respectively, prior to incubation with primary antibody.

STORAGE

Store at 2-8°C for up to one month. Store at -20°C for long-term storage. Avoid repeated freezing and thawing.

(cont'd)

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PI357600

(Rev 10/08) DCC-08-1089

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BACKGROUND

Plakophilin-3 is a novel 87 kDa Armadillo-like (Arm) protein, which is characterized by a series of repeats of 42-45 a.a., originally described in the *Drosophila* protein Armadillo (1). Plakophilin-3 is a member of the p120^{ctn}/plakophilin subfamily, which includes plakophilin-1, plakophilin-2, the ARVCF gene product and δ -catenin. This protein is similar to plakophilin-1 and plakophilin-2. Other Arm proteins include β -catenin and α -catenin. All these proteins are part of the cell-cell adhesion complex.

On Western Blot analysis, plakophilin-3 was expressed in epithelial cell lines but not in foreskin fibroblasts and sarcoma-derived cell lines. By Immunofluorescence, plakophilin-3 was colocalized with desmoglein in desmosomes of epithelial cells (1).

REFERENCES

1. Bonne et al. *J Cell Sci* 112:2265-2276, 1999.

RELATED PRODUCTS

Product	Clone/PAD*	Cat. No.
Mouse anti-ARVCF	4B1	32-3200
Mouse anti-Desmoglein-1	27B2	32-6000
Mouse anti-Desmoglein-3	5G11	32-6300
Mouse anti-Desmocollin-2/3	7G6	32-6200
Mouse anti-Plakophilin-1	10B2	32-5700
Mouse anti- α -Catenin	α CAT-7A4	13-9700
Mouse anti- β -Catenin	CAT-5H10	13-8400
Mouse anti- γ -Catenin	PG-11E4	13-8500
Protein A	Sepharose [®] 4B	10-1041
rec-Protein G	Sepharose [®] 4B	10-1241

*PAD: Polyclonal Antibody Designation

Conjugate	ZyMAX[™] Goat x Rabbit IgG (H+L)	ZyMAX[™] Goat x Mouse IgG (H+L)
Purified	81-6100	81-6500
FITC	81-6111	81-6511
TRITC	81-6114	81-6514
Cy [™] 3	81-6115	81-6515
Cy [™] 5	81-6116	81-6516
HRP	81-6120	81-6520
AP	81-6122	81-6522
Biotin	81-6140	81-6540

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