



**Qty:** 100 µg/200 µl

**Mouse anti-Plakophilin-1**

**Catalog No.** 32-5700

**Lot No.**

## Mouse anti-Plakophilin-1

### 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:** 10B2

**ISOTYPE:** Mouse IgG<sub>1</sub>

### IMMUNOGEN

N-terminus of Human plakophilin-1.

### SPECIFICITY

This antibody reacts with the N-terminus of human plakophilin-1.

### REACTIVITY

This antibody is confirmed reactive with human. Reactivity of this antibody was confirmed using MCF-7 cell lysates.

Sample	Immuno-precipitation (native)	Immuno-fluorescence	Western Blotting
Human	+++	+++	+++

(Excellent +++, Good++, Poor +, No reactivity 0, Not applicable NA)

### 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.

**Immunoprecipitation:** 2ug/IP Reaction

**Immunofluorescence:** 3-10 ug/ml

**Western Blotting:** 1-3 ug/ml

### 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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## BACKGROUND

Desmosomes are adhesive intercellular junctions that act as cell surface attachment sites for intermediate filaments and play a role in providing strength to many tissues. <sup>(1)</sup> In epithelial cells, the cytoplasmic side of desmosomes, the 'desmosomal plaque', represents a specific attachment structure for the anchorage of intermediate filaments (IF) of the cytokeratin type. <sup>(2)</sup> Plakophilin-1 protein is one of several proteins that make up the desmosomal plaque, including plakoglobin and desmoplakin 1 and 2.

## REFERENCES

1. Kowalczyk, A. P., H. L. Palka, et al. "Posttranslational regulation of plakoglobin expression. Influence of the desmosomal cadherins on plakoglobin metabolic stability." *J Biol Chem* 269(49):31214-23 (1994).
2. Kartenbeck J, Franke WW, Moser JG, Stoffels U. "Specific attachment of desmin filaments to desmosomal plaques in cardiac myocytes." *EMBO J* ;2(5):735-42 (1983).

## RELATED PRODUCTS

<b>Product</b>	<b>Clone/PAD*</b>	<b>Cat. No.</b>
Cadherin 11	5B2H5	32-1700
Cadherin 11	WTID1	71-7600
Pan-cadherin	ZyPC7	71-7000
E-Cadherin	HECD-1	13-1700
E-Cadherin	SHE78-7	13-5700
E-Cadherin	4A2C7	33-4000
E-Cadherin	ECCD-2	13-1900
E-Cadherin	ECCD-1	13-1800
E-Cadherin ELISA Kit	n/a	99-1700
N-Cadherin	NCD-2	13-2100
N-Cadherin	3B9	33-3900
P-Cadherin	NCC-CAD-299	13-5800
P-Cadherin	PCD-1	13-2000
Alpha-Catenin	ZER2	13-9700
Alpha-Catenin	alphaCAT-7A4	71-2000
Beta-Catenin	CAT-5H10	13-8400
Beta-Catenin	CAT-15	71-2700
Gamma-Catenin (Plakoglobin)	PG-11E4	13-8500
ARVCF	4B1	32-3200
ZO-1	Z-R1	61-7300
ZO-1	ZO-1-1A12	33-9100
ZO-1 (FITC Conjugated)	ZO-1-1A12	33-9100
Occludin	OC-3F10	33-1500
Occludin (FITC Conjugated)	OC-3F10	33-1511
Occludin (HRP Conjugated)	Z-T22	33-1520
Occludin	Z-T22	71-1500
Occludin (Neat Antiserum)	Polyclonal	71-1600

<b>Conjugate</b>	<b>ZyMAX™ Goat x Rabbit IgG (H+L)</b>	<b>ZyMAX™ Goat x Mouse IgG (H+L)</b>
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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