



Qty: 100 µg
Mouse anti-P-Cadherin
(Human)
Catalog No. 135800
Lot No.

Mouse anti-P-Cadherin (Human)

FORM

This monoclonal antibody is supplied lyophilized in 10mM PBS, pH 7.4, and 1.0% bovine serum albumin. Ascites fluid was produced in BALB/c mice. Antibodies were purified by ammonium sulfate precipitation and anion exchange chromatography.

Note: *This product does not contain a preservative.*

CLONE: NCC-CAD-299 **ISOTYPE:** IgG₁

IMMUNOGEN: Epidermoid carcinoma cell line A431

CLONING PARTNER: Myeloma cell line P3-X63-Ag8-U1

SPECIFICITY

This antibody reacts strongly with human P cadherin.

RECONSTITUTION

Reconstitute the lyophilizate with 50 µl of distilled water to yield a concentration of 2 mg/ml, optional 0.1% NaN₃ can be added if storage at 2-8°C is needed. Further working dilutions can be made in 20 mM Tris buffered saline (pH 7.4), 2 mM CaCl₂, and 1.0% bovine serum albumin.

USAGE

Optimal dilutions should be determined by the researcher for each application.

ELISA:	0.5 µg/ml (using immobilized A431 cells).
Immunohistochemistry (FFPE*)⁽⁶⁾:	2 µg/ml
Western Blotting (Native conditions)⁽⁷⁾:	0.5 – 2 µg/ml
Inhibition of P-cadherin-dependent cell-cell contact⁽¹⁰⁾:	100 µg/ml
Immunoprecipitation⁽⁸⁾:	
Immunofluorescence⁽⁹⁾:	2 – 5 µg/ml

*HIER required (citrate buffer, pH 6).

STORAGE

Lyophilized antibodies are stable at 2-8°C for 2 years. The reconstituted solution (2 mg/ml) can be stored at 2-8°C for up to 6 months, or can be stored at -20°C for long term storage, if the 0.1% NaN₃ is added. Avoid repeated freezing and thawing.

BACKGROUND

P-cadherin is a 120 kDa Ca²⁺-dependent cell adhesion molecule, which appears to be expressed in cells having high growth activity and/or high differentiation potential. In the early mouse embryo, P-cadherin has been detected in the extra-embryonic ectoderm, visceral endoderm, lateral plate mesoderm, and notocord. In the late embryo, P-cadherin is detected in the placenta, epidermis and other epithelial tissues, the pigmented retina, and the mesothelium.

P-cadherin displays a rather unique distribution pattern in human tissues in that its expression is not detected in placental tissue. In humans, expression is restricted to epithelial tissues where it appears to be restricted to the basal or lower layers of stratified epithelia.

(cont'd)

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REFERENCES

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RELATED PRODUCTS

Product	Clone/PAD	Cat. No.
Ms x E-Cadherin	4A2C7	33-4000
Ms x E-Cadherin	HECD-1	13-1700
Ms x E-Cadherin	SHE78-7	13-5700
Rt x E-Cadherin	ECCD-1	13-1800
Rt x E-Cadherin	ECCD-2	13-1900
Rt x N-Cadherin	NCD-2	13-2100
Ms x N-Cadherin	3B9	33-3900
Rt x P-Cadherin	PCD-1	13-2000
Rb x pan-Cadherin	ZyPC7	71-7100
E-Cadherin ELISA Kit (42 test)	Kit	99-1700
Ms x α -Cadherin	α CAT-7A4	13-9700
Rb x α -Cadherin	ZER2	71-1200
Ms x β -Catenin	CAT-5H10	13-8400
Ms x γ -Catenin	PG-11E4	13-8500
Ms x p120 ^{cas}	15D2	33-9600
Rb x β -Catenin	CAT-15	71-2700

Product	Conjugate	Cat. No.
Goat anti-Mouse IgG (H+L) (ZyMAX™ Grade)	Purified	81-6500
	FITC	81-6511
	TRITC	81-6514
	Cy™3	81-6515
	Cy™5	81-6516
	HRP	81-6520
	AP	81-6522
	Biotin	81-6540

Protein A	Sepharose® 4B	10-1041
rec-Protein G	Sepharose® 4B	10-1241

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