

P-cadherin Monoclonal Antibody (PCD-1)

Product Details	
Size	100 µg
Species	Mouse
Published Species	Tag, Rat, Hamster, Bovine, Sheep, Fish, Mouse, Human
Expression System	Rat / IgG2a
Class	Monoclonal
Type	Antibody
Clone	PCD-1
Conjugate	Unconjugated
Immunogen	Mouse endoderm cell line PSA5-E.
Form	Lyophilized
Concentration	2.0 mg/mL
Purification	Ion-exchange chromatography
Storage buffer	10mM PBS, pH 7.4, with 1% BSA
Contains	no preservative
Storage Conditions	4° C
RRID	AB_2533006

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay Dependent	2 Publications
Inhibition Assays (IA)	60 µg/mL	-
Western Blot (WB)	10 µg/mL	2 Publications
Flow Cytometry (Flow)	-	1 Publication
Immunofluorescence (IF)	-	8 Publications
Immunohistochemistry (IHC)	-	6 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	3 Publications
In vitro Assay (IV)	-	1 Publication
Miscellaneous PubMed (Misc)	-	4 Publications

Product Specific Information

Source: Monoclonal antibody was obtained by fusing the P3-X63-Ag8-U1 mouse myeloma cell-line with spleen cells of Donryu rat after immunization with mouse endoderm cell line PSA5-E.

Specificity: This antibody specifically reacts with mouse P-cadherin. This antibody inhibits P-cadherin-dependent cell-cell contact.

Cross reactivity: This antibody does not react with human or chicken P-cadherin.

Storage: 4°C This product does not contain preservative. The stock solution (2.0 mg/ml) should be stored in aliquots at -20°C for 1

year, or should be stored at 4°C for 6 months after adding 0.1% sodium azide. Avoid repeated freeze-thaw cycles.

Reconstitution: Dissolve the lyophilized antibody in 50 µl of distilled water (final concentration: 2.0 mg/ml). This solution can be used as a stock solution. If dilution is necessary for your application, dilute the stock solution with the following Dilution solution just prior to use. When the entire amount of antibody is to be used over a short time period, it may be dissolved directly in 500 µl or more of the Dilution solution. Be sure to store the antibody at a minimum concentration of 2.0 mg/ml. A lower antibody concentration may result in decreased stability. Reconstituted antibody solution should contain 0.1% sodium azide as a preservative when stored at 4°C.

Ca²⁺ should be contained in the buffers to stabilize cadherin antigen.

27 References

Immunohistochemistry (6)

eLife

Skin vasculature and hair follicle cross-talking associated with stem cell activation and tissue homeostasis.

"13-2000Z was used in Immunohistochemistry-immunofluorescence to suggest a working model in which coordinated remodeling and molecular cross-talking of the adult epithelial and endothelial skin compartments modulate timing of HFSC activation from quiescence for proper tissue homeostasis of adult skin."

Authors: Li KN,Jain P,He CH,Eun FC,Kang S,Tumbar T

Species
Mouse

Dilution
1:200

Year
2019

The Journal of comparative neurology

Retinal pigment epithelial integrity is compromised in the developing albino mouse retina.

"13-2000Z was used in immunohistochemistry to utilize the developing albino mouse retina to study compromised retinal pigment epithelial integrity"

Authors: Iwai-Takekoshi L,Ramos A,Schaler A,Weinreb S,Blazeski R,Mason C

Species
Not Applicable

Dilution
1:500

Year
2016

[View more IHC references on thermofisher.com](#)

Immunofluorescence (8)

The Journal of experimental medicine

The epidermal polarity protein Par3 is a non-cell autonomous suppressor of malignant melanoma.

"13-2000Z was used in immunohistochemistry - paraffin section and western blot to describe how epithelial polarity proteins suppress malignant outgrowth"

Authors: Mescher M,Jeong P,Knapp SK,Rübsam M,Saynisch M,Kranen M,Landsberg J,Schlaak M,Mauch C,Tüting T, Niessen CM,Iden S

Species
Human
Not Applicable
Hamster

Dilution
Not Cited
Not Cited
Not Cited

Year
2017

The Journal of comparative neurology

Retinal pigment epithelial integrity is compromised in the developing albino mouse retina.

"13-2000Z was used in immunohistochemistry to utilize the developing albino mouse retina to study compromised retinal pigment epithelial integrity"

Authors: Iwai-Takekoshi L,Ramos A,Schaler A,Weinreb S,Blazeski R,Mason C

Species
Not Applicable

Dilution
1:500

Year
2016

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IHC (P) (3)

WB (2)

IHC (F) (2)

Flow (1)

IV (1)

Misc (4)

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