

# P-cadherin Monoclonal Antibody (12H6), eBioscience™

## Product Details

Size	100 µg
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	12H6
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_10853809

Applications	Tested Dilution	Publications
Western Blot (WB)	Assay-Dependent	-
Immunohistochemistry (Paraffin) (IHC (P))	10 µg/mL	-
Immunocytochemistry (ICC/IF)	5 µg/mL	-

## Product Specific Information

**Description:** The monoclonal antibody 12H6 recognizes human P-cadherin (placental-cadherin), a calcium dependent cell-cell adhesion protein. This 118 kDa transmembrane protein was originally named due to its expression in mouse placental tissue. Unfortunately, it is not expressed in human placental tissue. The function of the molecule will depend on the associations with the specific member of the cytoplasmic catenin family (alpha, beta and gamma). The specific interaction defines the strength and signaling of the cell-cell interaction. Expression is less broad than E-cadherin; P-cadherin is restricted to the basal proliferative cell layer of stratified epithelia. During development expression is found in the proliferating tissues such as hair follicle keratinocytes and the growth regions in ductal mammary tissue. There is evidence that P-cadherin can be secreted from epithelial cells during the late stages of pregnancy. P-cadherin expression is associated with poor prognosis for breast cancer while reduced expression in melanomas and squamous cell carcinomas may also result in poor prognosis.

**Applications Reported:** This 12H6 antibody has been reported for use in western blotting, immunohistochemical staining of formalin-fixed paraffin embedded tissue sections (IHC-P), and immunocytochemical staining (ICC).

**Applications Tested:** This 12H6 antibody has been tested immunohistochemistry on formalin-fixed paraffin embedded (FFPE) human skin with low pH antigen retrieval. This antibody can be used at less than or equal to 10 µg/mL. It is recommended that this antibody be carefully titrated for optimal performance in the assay of interest.

**Purity:** Greater than 90%, as determined by SDS-PAGE.

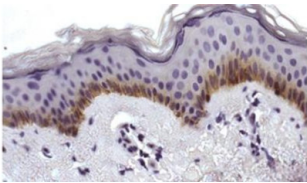
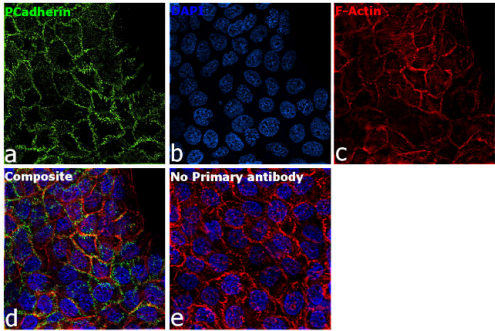
**Aggregation:** Less than 10%, as determined by HPLC.

**Filtration:** 0.2 µm post-manufacturing filtered.

Product Images For P-cadherin Monoclonal Antibody (12H6), eBioscience™

P-cadherin Antibody (14-9873-82) in ICC/IF

Immunofluorescence analysis of Cadherin-3 was performed using 70% confluent log phase A-431 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.01% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with P-cadherin Monoclonal Antibody (12H6), eBioscience™ (Product # 14-9873-82) at 5µg/mL in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32766, 1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b: Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cell junction localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



P-cadherin Antibody (14-9873-82) in IHC (P)

Immunohistochemistry on formalin-fixed paraffin embedded human skin using 10 µg/mL of Anti-Human P-Cadherin Purified followed by Anti-Mouse IgG Biotin, and DAB visualization. Nuclei are counterstained with hematoxylin.

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