



## Rabbit Anti-P-cadherin antibody

SL1159R

<b>Product Name:</b>	P-cadherin
<b>Chinese Name:</b>	P-钙粘附分子抗体
<b>Alias:</b>	placental; Cadherin-3; P cadherin; Cadp; Placental cadherin; P-cadherin; AI385538; Pca; Cadherin 3 precursor; Cadherin 3 type 1; Calcium dependent adhesion protein placental; Cadherin; CDH3; CDHP; 7B4 antigen; Cadherin-1; Cadherin-2; Cadherin-4; Cadherin-5; CAM 120/80; CD144; CD324; CD325; Cdh4; CDH5; CDHE; CDHN; CADH3_HUMAN; E-cadherin; Epithelial cadherin; N-cadherin; NCAD; Neural cadherin; P-cadherin; UVO; Uvomorulin; Vascular endothelial cadherin; CDH 3; CDH3; CDH3 protein; CDHP; HJMD; PCAD; Placental cadherin.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Cow,Rabbit,Guinea Pig,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800Flow-Cyt=2µg/TestICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	80kDa
<b>Cellular localization:</b>	The cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human P-cadherin:625-725/829<Cytoplasmic>
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>

cell-cell adhesion molecules. Cadherins are responsible for a whole range of processes including development, wound healing, cell-cell signaling, cell growth and differentiation. N-cadherin is found in many locations including cardiac adherens junctions, oral squamous epithelial cells, and breast epithelial cells. Studies have linked N-cadherin to cancer metastasis by showing the aggressive tumor cells had preferentially turned on N-cadherin as opposed to E- or P-cadherin. Cadherins are calcium dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types.

**Function:**

Cadherins are calcium dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types.

**Subunit:**

Interacts with CDCP1.

**Subcellular Location:**

Cell membrane; Single-pass type I membrane protein.

**Tissue Specificity:**

Expressed in some normal epithelial tissues and in some carcinoma cell lines.

**DISEASE:**

Defects in CDH3 are the cause of hypotrichosis with juvenile macular dystrophy (HJMD) [MIM:601553]. HJMD is a rare autosomal recessive disorder characterized by early hair loss heralding severe degenerative changes of the retinal macula and culminating in blindness during the second to third decade of life.

Defects in CDH3 are the cause of ectodermal dysplasia with ectrodactyly and macular dystrophy (EEM) [MIM:225280]; also known as EEM syndrome, Albrechtsen-Svendsen syndrome or Ohdo-Hirayama-Terawaki syndrome. Ectodermal dysplasia defines a heterogeneous group of disorders due to abnormal development of two or more ectodermal structures. EEM is an autosomal recessive condition characterized by features of ectodermal dysplasia such as sparse eyebrows and scalp hair, and selective tooth agenesis associated with macular dystrophy and ectrodactyly.

**Similarity:**

Contains 5 cadherin domains.

**SWISS:**

P22223

**Gene ID:**

1001

**Product Detail:**

**Database links:**

[Entrez Gene: 1001](#)Human

[Oimim: 114021](#)Human

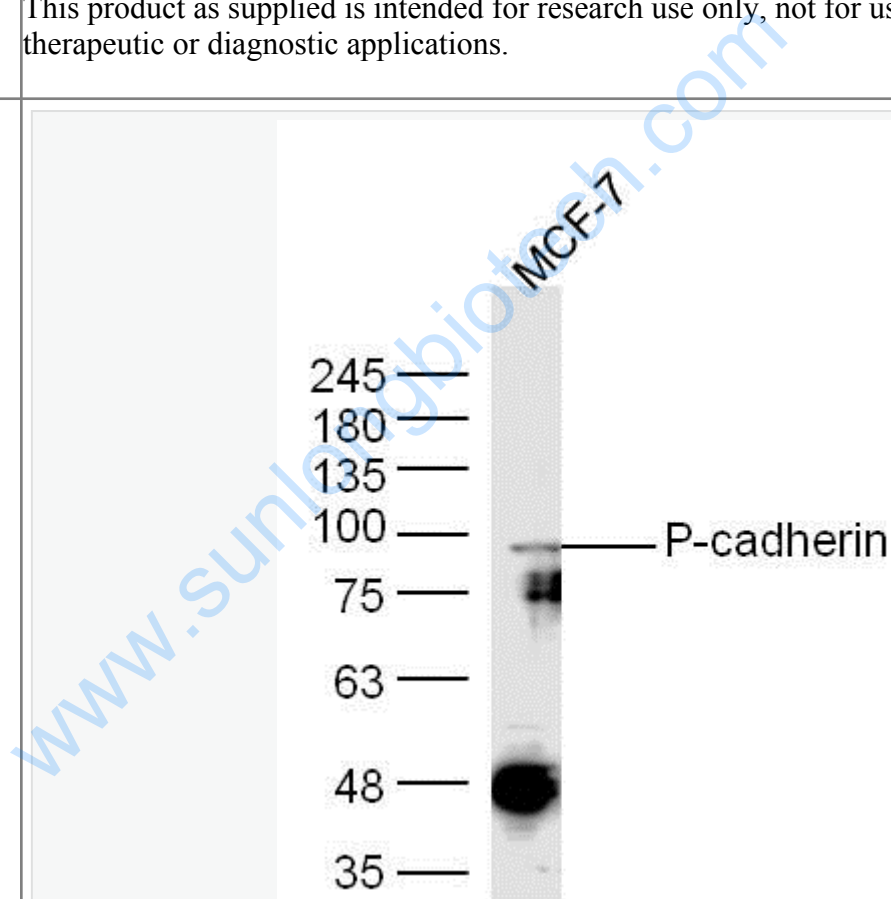
[SwissProt: P22223](#)Human

[Unigene: 191842](#)Human

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

**Picture:**



Sample:

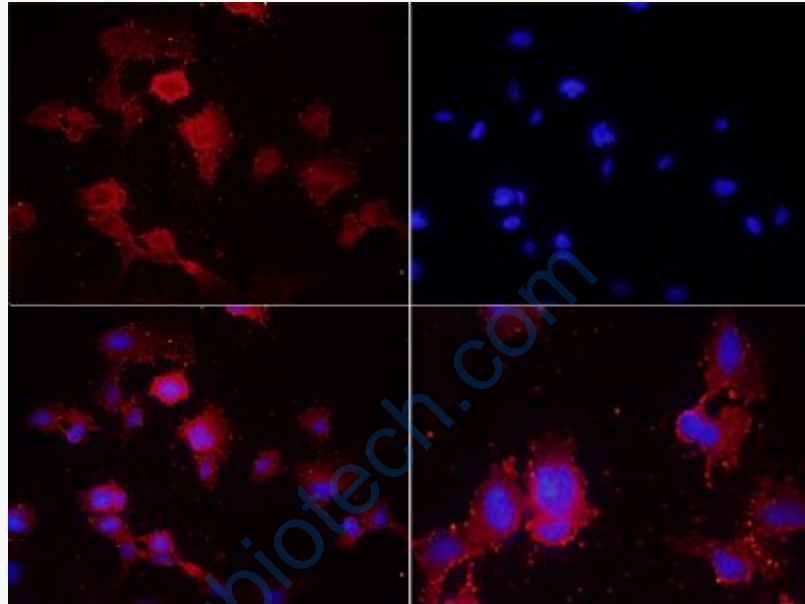
MCF-7(Human) Cell Lysate at 30 ug

Primary: Anti-P-cadherin (SL1159R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 80 kD

Observed band size: 90 kD



Tissue/cell: U251 cells;4% Paraformaldehyde-fixed;

Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-P-cadherin Polyclonal Antibody, Unconjugated(SL1159R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(SL1159R)used at 1:200 dilution for 40 minutes at 37°C.

DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei

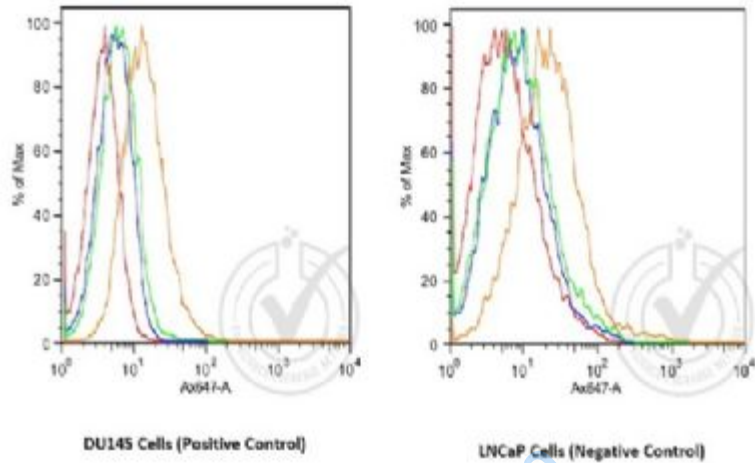
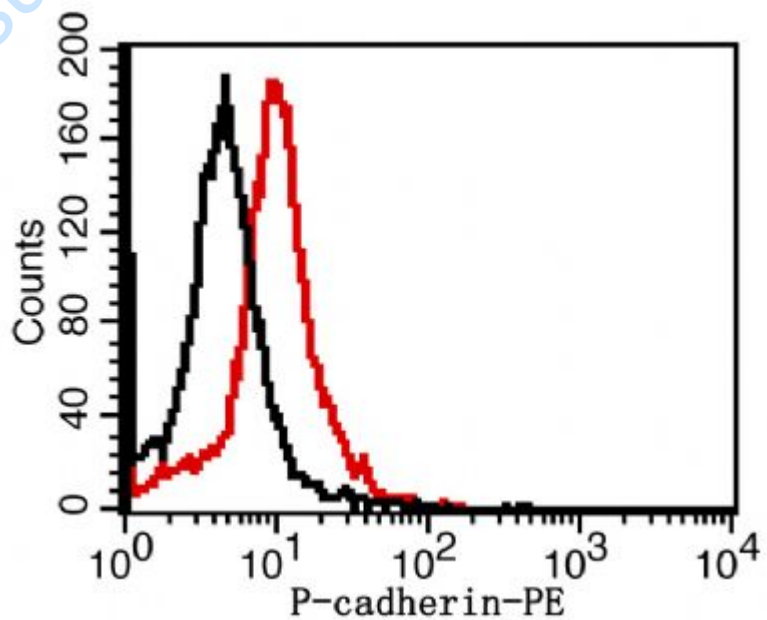


Image provided by Independent Validation (badge 029741). Histogram of human DU145 and human LNCaP cells stained with Rabbit Anti-P-cadherin Polyclonal Antibody (orange)(SL1159R), isotype control antibody (green), secondary antibody only (blue) and unstained (red)



Overlay histogram showing Mouse SP2/0 stained with bs-1159R-PE (red line). The cells were fixed with 1% paraformaldehyde (10 min). The cells were then incubated with the antibody(SL1159R) for 30 min at 22-25°C. Isotype control antibody (black line) was rabbit IgG (2ug/1x10<sup>6</sup>cells) used under the same conditions. Acquisition of >5,000 events was performed.