

## Anti-P-cadherin Polyclonal Antibody

### Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse (predicted: Rat, Chicken, Dog, Cow, Rabbit, Guinea Pig)
Molecular Weight:	Theoretical: 80 kDa. Actual: 90 kDa.
Purification:	Protein A purified

### Applications

Verified Activity:	<p>1. Overlay histogram showing Mouse SP2/0 stained with TMAB-10032-PE (red line). The cells were fixed with 1% paraformaldehyde (10 min). The cells were then incubated with the antibody (TMAB-10032-PE, 2ug/1x10<sup>6</sup> cells) 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 &gt;5,000 events was performed.</p> <p>2. Tissue/cell: U251 cells; 4% Paraformaldehyde-fixed; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-P-cadherin Polyclonal Antibody, Unconjugated (TMAB-10032) 1: 200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated used at 1: 200 dilution for 40 minutes at 37°C. DAPI (5 µg/ml, blue) was used to stain the cell nuclei</p> <p>3. Image provided by Independent Validation (badge 029741). Histogram of human DU145 and human LNCaP cells stained with Rabbit Anti-P-cadherin Polyclonal Antibody (orange) (TMAB-10032 at 1:100), isotype control antibody (green), secondary antibody only (blue) and unstained (red)</p> <p>4. Sample: MCF-7 (Human) Cell Lysate at 30 µg                      Primary: Anti-P-cadherin (TMAB-10032) at 1/300 dilution                      Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution                      Predicted band size: 80 kD                      Observed band size: 90 kD</p>
Application:	WB, IHC-P, IHC-Fr, IF, FCM
Recommended	WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500; FCM: 2µg/Test

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human P-cadherin  
Antigen Species: Human  
Gene ID: 1001  
Uniprot ID: P22223

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### Research Background

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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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