

Basic Information

Product Name	Anti-P-Cadherin/CDH3 Antibody		
Gene Name	CDH3		
Source	Rabbit		
Clonality	Polyclonal		
Isotype	IgG		
Species Reactivity	human, mouse, rat		
Tested Application	WB, ICC/IF, FCM, ELISA		
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.		
Immunogen	E. coli-derived human P cadherin recombinant protein (Position: Q126-H336).		
Concentration	500 ug/ml		
Purification	Immunogen affinity purified.		
Observed MW	120 kDa		
Dilution Ratios	Western blot (WB):	1:500-2000	
	Immunocytochemistry/Immunofluorescence (ICC/IF):	1:50-400	
	Flow Cytometry (Fixed):	1:50-200	
	Enzyme linked immunosorbent assay (ELISA):	1:100-1000	

Storage

12 months from date of receipt, -20°C as supplied.

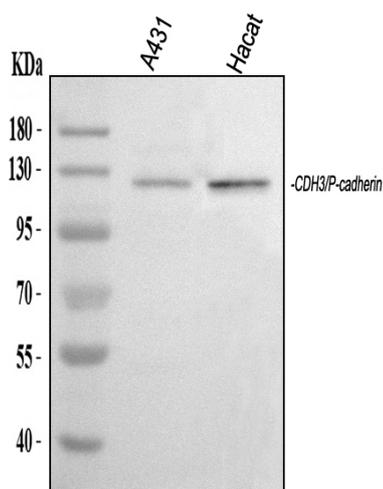
Background Information

Cadherins, such as CDH3, are integral membrane glycoproteins responsible for calcium-dependent cell-cell adhesion. Cadherin-3 is a protein that in humans is encoded by the CDH3 gene. This gene is a classical cadherin from the cadherin superfamily. The encoded protein is a calcium-dependent cell-cell adhesion glycoprotein composed of five extracellular cadherin repeats, a transmembrane region and a highly conserved cytoplasmic tail. This gene is located in a six-cadherin cluster in a region on the long arm of chromosome 16 that is involved in loss of heterozygosity events in breast and prostate cancer. In addition, aberrant expression of this protein is observed in cervical adenocarcinomas. Mutations in this gene have been associated with congenital hypotrichosis with juvenile macular dystrophy.

Reference

Anti-P-Cadherin/CDH3 Antibody被引用在1文献中。

Selected Validation Data

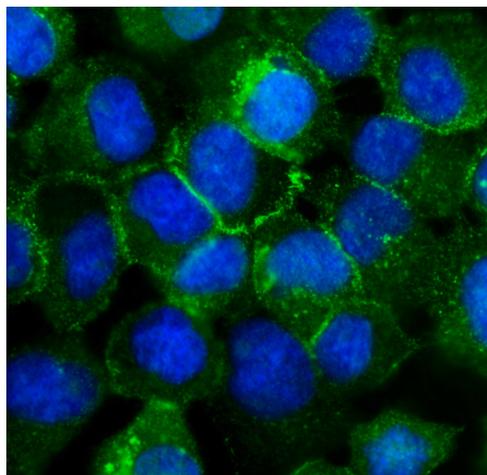


Western blot analysis of anti- CDH3 antibody (A03353-1). The sample well of each lane was loaded with 30ug of sample under reducing conditions.

Lane 1: human A431 whole cell lysates,

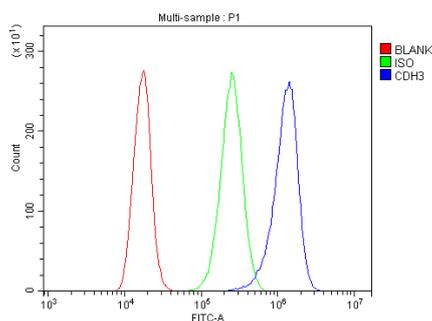
Lane 2: human Hacat whole cell lysates.

Use rabbit anti- CDH3 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog#EK1002). A specific band was detected for CDH3 at approximately 120KD. The expected band size for CDH3 is at 91KD.



ICC/IF analysis of P-Cadherin/CDH3 using anti-P-Cadherin/CDH3 antibody (A03353-1).

P-Cadherin/CDH3 was detected in an immunocytochemical section of A431 cells. The section was incubated with rabbit anti-P-Cadherin/CDH3 Antibody (A03353-1) at a dilution of 1:100. Fluoro488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).



Flow Cytometry analysis of A431 cells using anti-P-Cadherin/CDH3 antibody (A03353-1).

Overlay histogram showing A431 cells stained with A03353-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-P-Cadherin/CDH3 Antibody (A03353-1) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.