

For Research Use Only

Cadherin-13 Polyclonal antibody

Catalog Number: 12618-1-AP



Basic Information

Catalog Number: 12618-1-AP	GenBank Accession Number: BC030653	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 300 µg/ml by Nanodrop and 220 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 1012	Recommended Dilutions: WB 1:500-1:1000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
Source: Rabbit	Full Name: cadherin 13, H-cadherin (heart)	IHC 1:20-1:200
Isotype: IgG	Calculated MW: 713 aa, 78 kDa	
Immunogen Catalog Number: AG3295	Observed MW: 105 kDa	

Applications

Tested Applications: FC, IHC, IP, WB, ELISA	Positive Controls: WB : mouse heart tissue, human heart tissue, L02 cells IP : mouse heart tissue, IHC : human endometrial cancer tissue, human heart tissue
Species Specificity: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

Cadherins are a family of transmembrane glycoproteins that mediate calcium-dependent cell-cell adhesion and play an important role in the maintenance of normal tissue architecture. Cadherin-13 (CDH13, also known as H-cadherin or T-cadherin) is an atypical member of cadherin family, lacking transmembrane and cytosolic domains and anchored to the exterior surface of the plasma membrane via a GPI anchor. CDH13 is thought to affect cellular behavior largely through its signaling properties. It is highly expressed in heart, and in the CNS, CDH13 is expressed in cerebral cortex, medulla, hippocampus, amygdala, thalamus and substantia nigra. It is often down-regulated in cancerous cells. The CDH13 cDNA encodes a 713-amino acid protein, which has a calculated molecular weight of 78 kDa. Studies have detected variable bands on Western blots, including 105 kDa (mature form), 130 kDa (precursor), and 45 kDa, which may be a post-translational processing variant of CDH13 (PMID: 19399994).

Storage

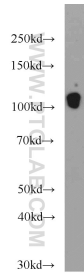
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

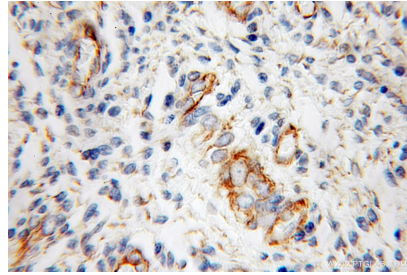
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
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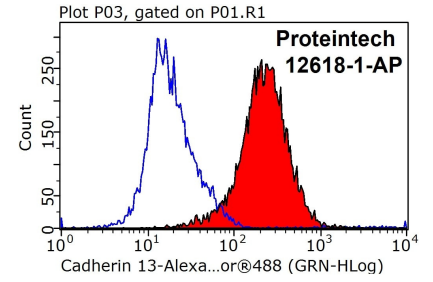
Selected Validation Data



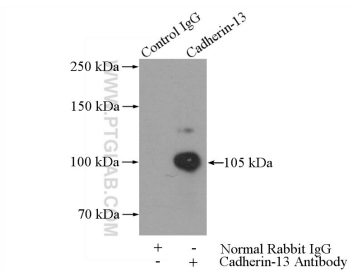
mouse heart tissue were subjected to SDS PAGE followed by western blot with 12618-1-AP (Cadherin-13 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human endometrial cancer using 12618-1-AP (Cadherin-13 antibody) at dilution of 1:100 (under 10x lens).



1×10^6 Jurkat cells were stained with 0.5ug Cadherin-13 antibody (12618-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



IP Result of anti-Cadherin-13 (IP:12618-1-AP, 4ug; Detection:12618-1-AP 1:700) with mouse heart tissue lysate 4000ug.