

For Research Use Only

Cadherin-13 Polyclonal antibody

Catalog Number: 12618-1-AP

1 Publications



Basic Information

Catalog Number: 12618-1-AP	GenBank Accession Number: BC030653	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 300 ug/ml by Nanodrop and 220 ug/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 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF-P 1:50-1:500
Source: Rabbit	UNIPROT ID: P55290	
Isotype: IgG	Full Name: cadherin 13, H-cadherin (heart)	
Immunogen Catalog Number: AG3295	Calculated MW: 713 aa, 78 kDa	
	Observed MW: 105 kDa	

Applications

Tested Applications: WB, IHC, IF-P, IP, ELISA	Positive Controls: WB : mouse heart tissue, human heart tissue, L02 cells IP : mouse heart tissue, IHC : mouse heart tissue, human heart tissue IF-P : mouse heart tissue,
Cited Applications: IF	
Species Specificity: human, mouse	
Cited Species: 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Zheng Fan	38941187	Cell Rep	IF

Storage

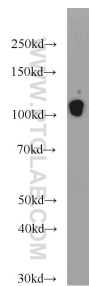
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

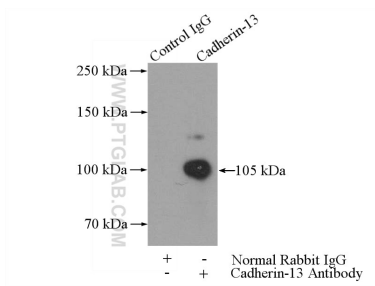
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

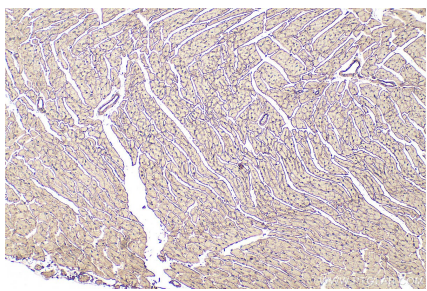
Selected Validation Data



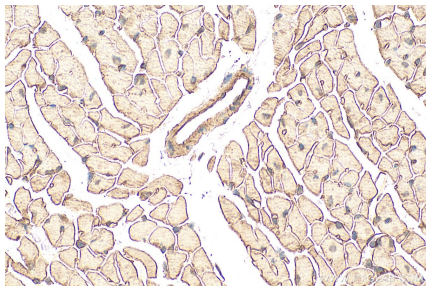
mouse heart tissue were subjected to SDS PAGE followed by western blot with 12618-1-AP (Cadherin-13 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



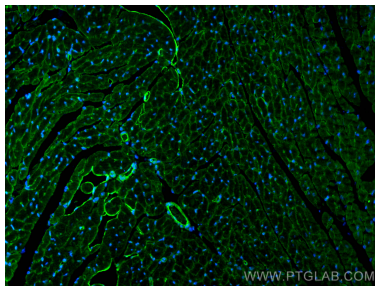
IP result of anti-Cadherin-13 (IP:12618-1-AP, 4ug; Detection:12618-1-AP 1:700) with mouse heart tissue lysate 4000ug.



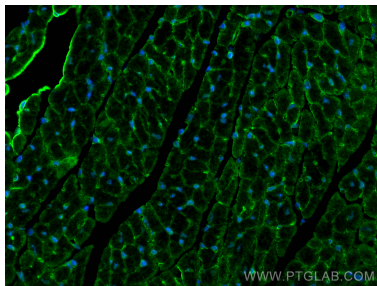
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 12618-1-AP (Cadherin-13 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 12618-1-AP (Cadherin-13 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using Cadherin-13 antibody (12618-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse heart tissue using Cadherin-13 antibody (12618-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).