

For Research Use Only

Cadherin-13 Polyclonal antibody, PBS Only

Catalog Number: 12618-1-PBS



Basic Information

Catalog Number:

12618-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3295

GenBank Accession Number:

BC030653

GeneID (NCBI):

1012

UNIPROT ID:

P55290

Full Name:

cadherin 13, H-cadherin (heart)

Calculated MW:

713 aa, 78 kDa

Observed MW:

105 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

WB, IHC, IF-P, IP, Indirect ELISA

Species Specificity:

human, mouse

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 -80°C.

Storage Buffer:

PBS Only

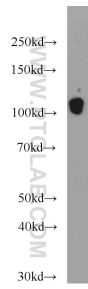
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

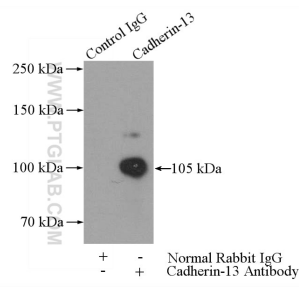
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

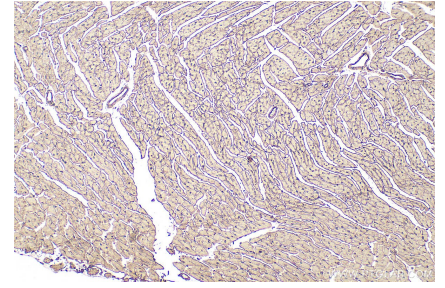
Selected Validation Data



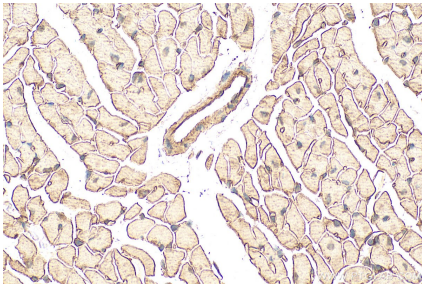
mouse heart tissue were subjected to SDS PAGE followed by western blot with 12618-1-AP (Cadherin-13 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 12618-1-PBS in a different storage buffer formulation.



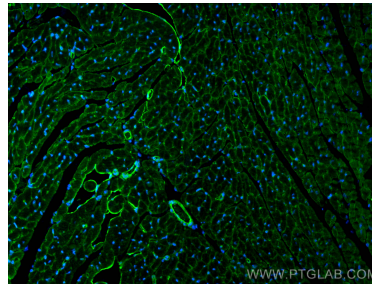
IP result of anti-Cadherin-13 (IP:12618-1-AP, 4ug; Detection:12618-1-AP 1:700) with mouse heart tissue lysate 4000ug. This data was developed using the same antibody clone with 12618-1-PBS in a different storage buffer formulation.



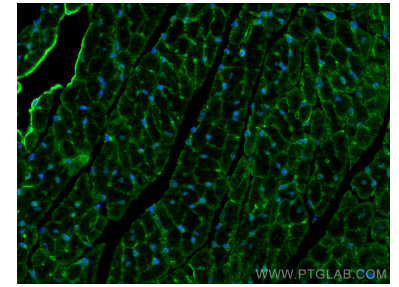
Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 12618-1-AP (Cadherin-13 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 12618-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 12618-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 12618-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 12618-1-PBS in a different storage buffer formulation.