

For Research Use Only

Cadherin-13 Recombinant monoclonal antibody, PBS Only

Catalog Number: 87073-2-PBS



Basic Information

Catalog Number: 87073-2-PBS	GenBank Accession Number: NM_001257.4	Purification Method: Protein A purification
Size: 100ug, Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 1012	CloneNo.: 252245C12
Source: Rabbit	UNIPROT ID: P55290-1	
Isotype: IgG	Full Name: cadherin 13, H-cadherin (heart)	
Immunogen Catalog Number: EG5964	Calculated MW: 78 kDa	
	Observed MW: 90-110 kDa	

Applications

Tested Applications:
WB, 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, pH7.3

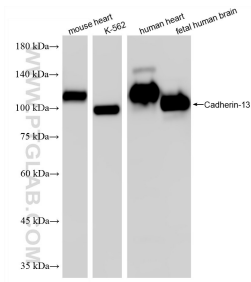
For technical support and original validation data for this product please contact:

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

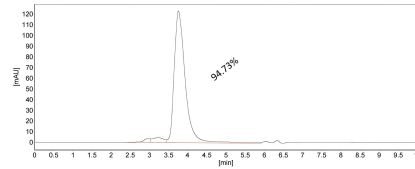
E: proteintech@ptglab.com
W: ptglab.com

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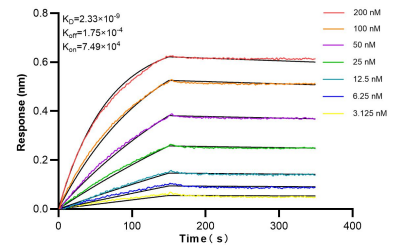
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87073-2-RR (CAD13 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87073-2-PBS in a different storage buffer formulation.



The purity of Human Cadherin-13 Recombinant monoclonal antibody (Cat. No. 87073-2-RR) was greater than 90% as determined by SEC-HPLC.



Biolayer interferometry (BLI) kinetic assays of 87073-2-RR against Human Cadherin-13 were performed. The affinity constant is 2.33 nM.