

# Cadherin-13 Recombinant monoclonal antibody

Catalog Number: 87073-1-RR

## Basic Information

|                                                                |                                                      |                                                       |
|----------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------|
| <b>Catalog Number:</b><br>87073-1-RR                           | <b>GenBank Accession Number:</b><br>NM_001257.4      | <b>Purification Method:</b><br>Protein A purification |
| <b>Size:</b><br>100ul , Concentration: 1000 µg/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>1012                        | <b>CloneNo.:</b><br>252245F8                          |
| <b>Source:</b><br>Rabbit                                       | <b>UNIPROT ID:</b><br>P55290-1                       | <b>Recommended Dilutions:</b><br>WB: 1:5000-1:50000   |
| <b>Isotype:</b><br>IgG                                         | <b>Full Name:</b><br>cadherin 13, H-cadherin (heart) |                                                       |
| <b>Immunogen Catalog Number:</b><br>EG5964                     | <b>Calculated MW:</b><br>78 kDa                      |                                                       |
|                                                                | <b>Observed MW:</b><br>105 kDa, 130 kDa              |                                                       |

## Applications

|                                                  |                                                                                                                                                                  |
|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Tested Applications:</b><br>WB, ELISA         | <b>Positive Controls:</b><br>WB : H9C2 cells, mouse stomach tissue, mouse heart tissue, rat skeletal muscle tissue, fetal human brain tissue, human heart tissue |
| <b>Species Specificity:</b><br>human, mouse, rat |                                                                                                                                                                  |

## 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

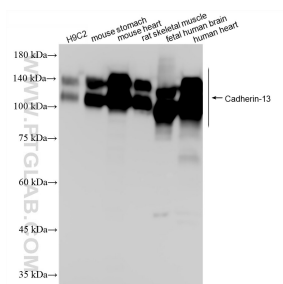
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

For technical support and original validation data for this product please contact:  
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E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87073-1-RR (CAD13 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.