

For Research Use Only

# GUCY2D Polyclonal antibody

Catalog Number: 55127-1-AP **2 Publications**



## Basic Information

<b>Catalog Number:</b> 55127-1-AP	<b>GenBank Accession Number:</b> NM_000180	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 350 ug/ml by Nanodrop and 393 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3000	<b>Recommended Dilutions:</b> WB 1:500-1:1000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q02846	
<b>Isotype:</b> IgG	<b>Full Name:</b> guanylate cyclase 2D, membrane (retina-specific)	
	<b>Calculated MW:</b> 120 kDa	
	<b>Observed MW:</b> 120 kDa, 95 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : mouse brain tissue, human brain tissue
<b>Cited Applications:</b> WB, IF	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse	

## Background Information

GUCY2D, also named as CORD6, GUC1A4, GUC2D, RETGC, RETGC1 and ROS-GC, belongs to the adenylyl cyclase class-4/guanylyl cyclase family. It probably plays a specific functional role in the rods and/or cones of photoreceptors. It may be the enzyme involved in the resynthesis of cGMP required for recovery of the dark state after phototransduction. A number of nonsense and frameshift mutations in the GUCY2D gene have been identified in LCA1 patients. Defects in GUCY2D are the cause of cone-rod dystrophy type 6 (CORD6). GUCY2D is responsible for many reported cases of autosomal dominant CRDs. The antibody is specific to GUCY2D.

## Notable Publications

Author	Pubmed ID	Journal	Application
Poppy Datta	31694913	J Biol Chem	WB,IF
Suguru Yamasaki	35024589	iScience	IF

## Storage

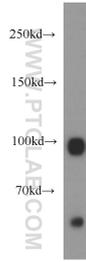
**Storage:**  
Store at -20°C.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

**\*\*\* 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  
W: ptglab.com

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## Selected Validation Data



mouse brain tissue were subjected to SDS PAGE followed by western blot with 55127-1-AP (GUCY2D antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.