

For Research Use Only

# PCDH21 Recombinant antibody

Catalog Number: 84084-3-RR



## Basic Information

<b>Catalog Number:</b> 84084-3-RR	<b>GenBank Accession Number:</b> BC038799	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 92211	<b>CloneNo.:</b> 241134E10
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q96JP9	<b>Recommended Dilutions:</b> WB 1:1000-1:4000
<b>Isotype:</b> IgG	<b>Full Name:</b> protocadherin 21	
<b>Immunogen Catalog Number:</b> AG11451	<b>Calculated MW:</b> 745 aa, 82 kDa	
	<b>Observed MW:</b> 120 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : Y79 cells,
<b>Species Specificity:</b> human	

## Background Information

Protocadherins, which constitute the largest subgroup within the cadherin superfamily, are predominantly expressed in the nervous system and are probably involved in the regulation of neuronal recognition and connectivity (PMID: 17936607; 12231349; 17133224). PCDH21 (protocadherin 21), also known as CDHR1, is a photoreceptor-specific cadherin protein containing six ECs and an intracellular domain. The mutations of PCDH21 cause recessive retinal degeneration and autosomal recessive cone-rod dystrophy in humans (PMID: 16288196; PMID: 20805371). The full length of the PCDH21 protein is 120 kDa, the N-terminal soluble fragment is 95 kDa, and the C-terminal fragment is 25 kDa (PMID: 35066146; PMID: 18654668; PMID: 33964272).

## Storage

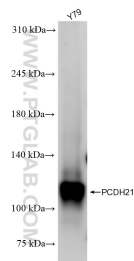
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

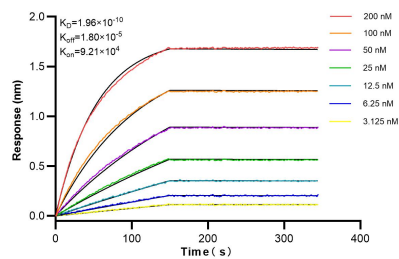
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## Selected Validation Data



Y79 cells were subjected to SDS PAGE followed by western blot with 84084-3-RR (PCDH21 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 84084-3-RR against Human PCDH21 were performed. The affinity constant is 0.196 nM.