

For Research Use Only

# CASR Recombinant antibody

Catalog Number: 86319-1-RR



## Basic Information

### Catalog Number:

86319-1-RR

### Size:

100ul , Concentration: 1000 µg/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### GenBank Accession Number:

NM\_000388

### GeneID (NCBI):

846

### UNIPROT ID:

P41180

### Full Name:

calcium-sensing receptor

### Calculated MW:

121 kDa

### Observed MW:

120 kDa

### Purification Method:

Protein A purification

### CloneNo.:

243029B11

### Recommended Dilutions:

WB: 1:1000-1:4000

## Applications

### Tested Applications:

WB, ELISA

### Species Specificity:

human, mouse

### Positive Controls:

WB : mouse kidney tissue, human kidney tissue, mouse liver tissue

## Background Information

CASR, also named as GPRC2A, PCAR1, belongs to the G-protein coupled receptor 3 family. Changes in extracellular calcium are thought to modulate a balance between proliferation and differentiation in a variety of cell types. The activity of CASR is mediated by a G-protein that activates a phosphatidylinositol-calcium second messenger system. It has been shown to play a major role in regulating parathyroid hormone secretion and subsequently influencing the calcium concentration of extracellular fluids. In normal primary keratinocytes and breast epithelial cells, proliferation is inhibited and elevated extracellular calcium levels trigger differentiation. Malignant transformations of these cell types are accompanied by a loss of responsiveness to the anti-proliferative effects of elevated extracellular calcium. Several disorders of calcium homeostasis have been linked to mutations in the CaSR. These include familial hypocalciuric hypercalcemia (FHH), neonatal severe hyperparathyroidism (NSHPT), and autosomal dominant hypocalcemia (ADHypo).

## 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

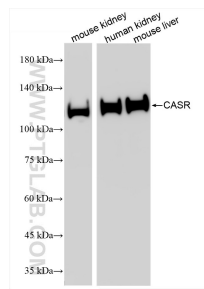
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86319-1-RR (CASR antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.