

For Research Use Only

# Calcium Sensing Receptor Polyclonal antibody



Catalog Number: 19125-1-AP

Featured Product

17 Publications

## Basic Information

<b>Catalog Number:</b> 19125-1-AP	<b>GenBank Accession Number:</b> NM_000388	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 846	<b>Recommended Dilutions:</b> WB 1:2000-1:10000
<b>Source:</b> Rabbit	<b>Full Name:</b> calcium-sensing receptor	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 121 kDa	
	<b>Observed MW:</b> 120-140 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : mouse kidney tissue, COLO 320 cells, HL-60 cells, Jurkat cells, mouse liver tissue
<b>Cited Applications:</b> IF, IHC, WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, goat, rat, mouse	

## 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). The 60-65 kDa band detected by this antibody might represent a degradation product of CASR (PMID: 15718278).

## Notable Publications

Author	Pubmed ID	Journal	Application
Wei Pang	36093409	Biomed Res Int	WB
Meili Lu	30364197	Front Pharmacol	WB,IF
Panpan Chen	34690749	Front Pharmacol	WB

## Storage

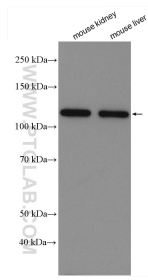
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

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 19125-1-AP (Calcium Sensing Receptor antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.