

CASR/Calcium Sensing Receptor Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS10359

Specification

CASR/Calcium Sensing Receptor Antibody (N-Terminus) - Product Information

Application	IHC
Primary Accession	P41180
Reactivity	Human, Mouse, Rabbit, Hamster, Monkey, Pig, Chicken, Horse, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	121kDa KDa

CASR/Calcium Sensing Receptor Antibody (N-Terminus) - Additional Information

Gene ID 846

Other Names

Extracellular calcium-sensing receptor, CaSR, Parathyroid cell calcium-sensing receptor 1, PCaR1, CASR, GPRC2A, PCAR1

Target/Specificity

Human CASR. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

CASR/Calcium Sensing Receptor Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

CASR/Calcium Sensing Receptor Antibody (N-Terminus) - Protein Information

Name CASR ([HGNC:1514](#))

Function

G-protein-coupled receptor that senses changes in the extracellular concentration of calcium ions and plays a key role in maintaining calcium homeostasis (PubMed:[7759551](http://www.uniprot.org/citations/7759551), PubMed:[8702647](http://www.uniprot.org/citations/8702647), PubMed:[8636323](http://www.uniprot.org/citations/8636323), PubMed:[8878438](http://www.uniprot.org/citations/8878438), PubMed:[17555508](http://www.uniprot.org/citations/17555508), PubMed:[19789209](http://www.uniprot.org/citations/19789209), PubMed:[21566075](http://www.uniprot.org/citations/21566075), PubMed:[22114145](http://www.uniprot.org/citations/22114145)

href="http://www.uniprot.org/citations/23966241" target="_blank">23966241, PubMed:25292184, PubMed:25104082, PubMed:26386835, PubMed:25766501, PubMed:22789683). Senses fluctuations in the circulating calcium concentration and modulates the production of parathyroid hormone (PTH) in parathyroid glands (By similarity). The activity of this receptor is mediated by a G-protein that activates a phosphatidylinositol-calcium second messenger system (PubMed:7759551). The G-protein-coupled receptor activity is activated by a co-agonist mechanism: aromatic amino acids, such as Trp or Phe, act concertedly with divalent cations, such as calcium or magnesium, to achieve full receptor activation (PubMed:27434672, PubMed:27386547).

Cellular Location

Cell membrane; Multi-pass membrane protein

Tissue Location

Expressed in the temporal lobe, frontal lobe, parietal lobe, hippocampus, and cerebellum. Also found in kidney, lung, liver, heart, skeletal muscle, placenta.

Volume

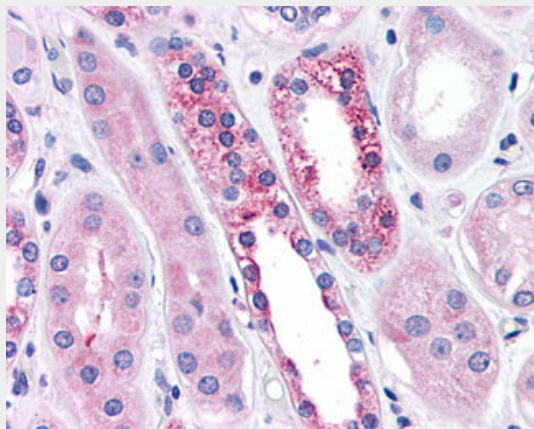
50 µl

CASR/Calcium Sensing Receptor Antibody (N-Terminus) - Protocols

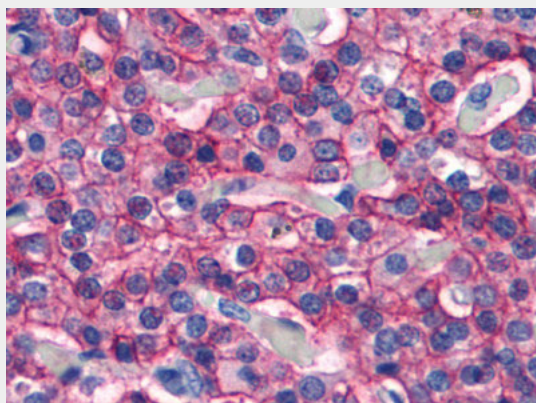
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CASR/Calcium Sensing Receptor Antibody (N-Terminus) - Images



Anti-CASR/Calcium Sensing Receptor antibody IHC of human kidney, diabetes.



Anti-CASR antibody ALS10359 IHC of human parathyroid.

CASR/Calcium Sensing Receptor Antibody (N-Terminus) - Background

Senses changes in the extracellular concentration of calcium ions. The activity of this receptor is mediated by a G- protein that activates a phosphatidylinositol-calcium second messenger system.

CASR/Calcium Sensing Receptor Antibody (N-Terminus) - References

- Pearce S.H.S.,et al.Submitted (DEC-1994) to the EMBL/GenBank/DDBJ databases.
Garrett J.E.,et al.J. Biol. Chem. 270:12919-12925(1995).
Aida K.,et al.Biochem. Biophys. Res. Commun. 214:524-529(1995).
Freichel M.,et al.Endocrinology 137:3842-3848(1996).
Aida K.,et al.J. Clin. Endocrinol. Metab. 80:2594-2598(1995).