

CASR/Calcium Sensing Receptor Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS10360**Specification****CASR/Calcium Sensing Receptor Antibody (N-Terminus) - Product Information**

Application	IHC
Primary Accession	P41180
Reactivity	Human, Bovine
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: [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), PubMed: [22789683](http://www.uniprot.org/citations/22789683), PubMed: [23966241](http://www.uniprot.org/citations/23966241), PubMed: [25104082](http://www.uniprot.org/citations/25104082), PubMed: [25292184](http://www.uniprot.org/citations/25292184), PubMed: [25766501](http://www.uniprot.org/citations/25766501), PubMed: <a

[26386835](http://www.uniprot.org/citations/26386835), PubMed:<[7759551](http://www.uniprot.org/citations/7759551)>, PubMed:<[8636323](http://www.uniprot.org/citations/8636323)>, PubMed:<[8702647](http://www.uniprot.org/citations/8702647)>, PubMed:<[8878438](http://www.uniprot.org/citations/8878438)>). 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](http://www.uniprot.org/citations/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:<[27386547](http://www.uniprot.org/citations/27386547)>, PubMed:<[27434672](http://www.uniprot.org/citations/27434672)>).

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

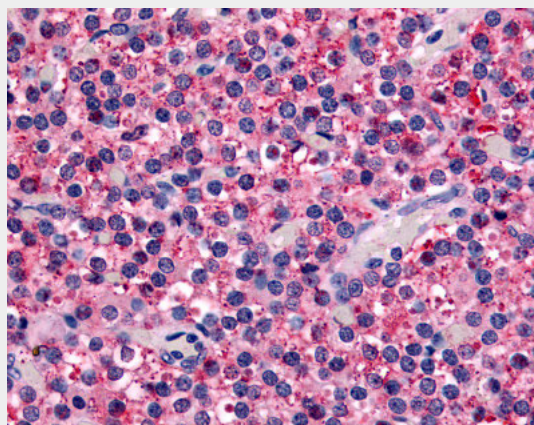
50 μ l

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 antibody ALS10360 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).