

CASR/Calcium Sensing Receptor Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS12528**Specification****CASR/Calcium Sensing Receptor Antibody (N-Terminus) - Product Information**

Application	IHC
Primary Accession	P41180
Reactivity	Human, Rat
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

Reconstitution & Storage

Long term: -20°C; Short term: +4°C. Avoid repeat freeze-thaw cycles.

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, PubMed:8702647, PubMed:8636323, PubMed:8878438, PubMed:17555508, PubMed:19789209, PubMed:21566075, PubMed:22114145, PubMed:23966241, PubMed:25292184, PubMed:25104082, PubMed:26386835, PubMed:25766501, PubMed:<a

[22789683](http://www.uniprot.org/citations/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](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: [27434672](http://www.uniprot.org/citations/27434672), PubMed: [27386547](http://www.uniprot.org/citations/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

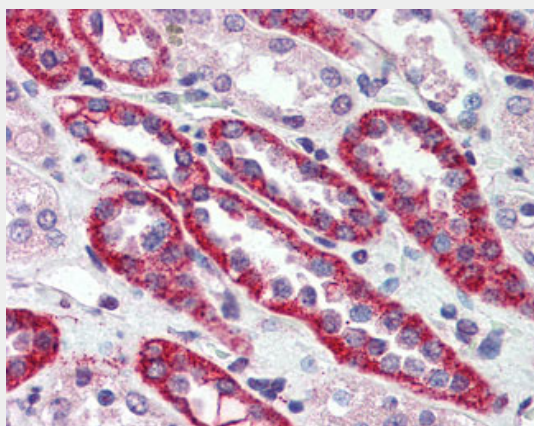
50 μ l

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

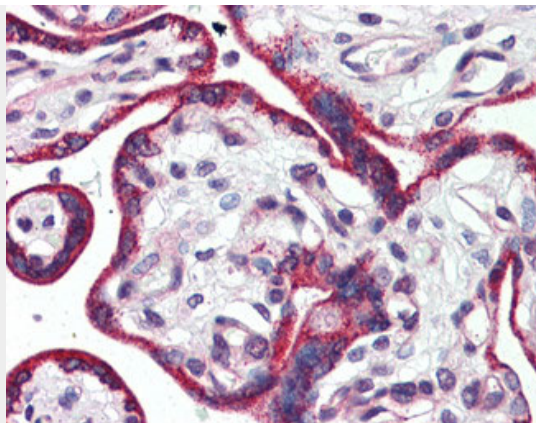
Provided below are standard protocols that you may find useful for product applications.

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

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



Anti-Calcium Sensing Receptor antibody IHC of human kidney.



Anti-Calcium Sensing Receptor antibody IHC of human placenta.

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).