

CASR/Calcium Sensing Receptor Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS17094

Specification

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

Application	IHC
Primary Accession	P41180
Other Accession	846
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	120675

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

Gene ID 846

Other Names

CASR, Ca sensing receptor, Ca²⁺ sensing receptor, Calcium-sensing receptor, FIH, EIG8, GPRC2A, HHC, HHC1, Hypocalciuric hypercalcemia 1, PCAR1, NSHPT, CAR, FHH

Target/Specificity

CASR antibody is human, mouse and rat reactive. At least two isoforms of CASR are known to exist.

Reconstitution & Storage

PBS, 0.02% sodium azide. 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](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)

[>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 \(PubMed:27434672, PubMed:27386547\).](http://www.uniprot.org/citations/23966241)

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

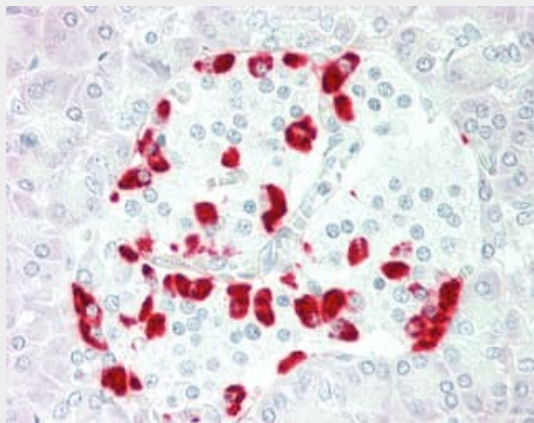
50 µl

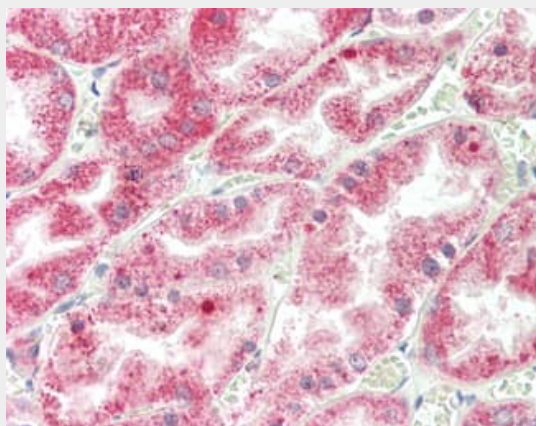
CASR/Calcium Sensing Receptor Antibody (N-Terminus) - Protocols

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



Human Pancreas: Formalin-Fixed, Paraffin-Embedded (FFPE)**Human Kidney: Formalin-Fixed, Paraffin-Embedded (FFPE)****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).