SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Calcium Sensing Receptor antibody

Catalog Number: SL22371R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Calcium Sensing Receptor
Immunogen:	KLH conjugated synthetic peptide derived from human Calcium Sensing Receptor: 71-170/1078 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse, Rat, (predicted: Human, Cow, Rabbit, Sheep)
Predicted MW.:	118kDa
Subcellular Location:	The cell membrane
Background:	Extracellular calcium-sensing receptor (CaSR), also designated parathyroid cell calcium-sensing receptor, is an integral membrane protein that belongs to the G protein-coupled receptor 3 family. CaSR is involved in maintaining a stable calcium concentration by acting as an sensor of the extracellular calcium levels for the parathyroid and kidney. Its activity is mediated by a G protein which activates a phosphatidylinositol-calcium second messenger **Function:** 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. **Subunit:** Interacts with VCP and RNF19A. Interacts with ARRB1 (By similarity). **Subcellular Location:** Cell membrane. **Tissue Specificity:** Expressed in the temporal lobe, frontal lobe, parietal lobe, hippocampus, and cerebellum. Also found in kidney, lung, liver, heart, skeletal

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	muscle, placenta. **Post-translational modifications:** N-glycosylated. Ubiquitinated by RNF19A; which induces proteasomal degradation. DISEASE: Defects in CASR are the cause of familial hypocalciuric hypercalcemia type 1 (FHH) [MIM:145980]. FHH is characterized by altered calcium homeostasis. Affected individuals exhibit mild or modest hypercalcemia, relative hypocalciuria, and inappropriately normal PTH levels. Defects in CASR are the cause of neonatal severe primary hyperparathyroidism (NSHPT) [MIM:239200]. NSHPT is a rare autosomal recessive life-threatening disorder characterized by very high serum calcium concentrations, skeletal demineralization, and parathyroid hyperplasia. In some instances NSHPT has been demonstrated to be the homozygous form of FHH. Defects in CASR are a cause of familial isolated hypoparathyroidism (FIH) [MIM:146200]; also called autosomal dominant hypoparathyroidism or autosomal dominant hypocalcemia. FIH is characterized by hypocalcemia and hyperphosphatemia due to inadequate secretion of parathyroid hormone. Symptoms are seizures, tetany and cramps. An autosomal recessive form of FIH also exists. Defects in CASR are the cause of epilepsy, idiopathic generalized type 8 (EIG8) [MIM:612899]. A disorder characterized by recurring generalized seizures in the absence of detectable brain lesions and/or metabolic abnormalities. Seizure types are variable, but include myoclonic seizures, absence seizures, febrile seizures, complex partial seizures, and generalized tonic-clonic seizures. Note=Homozygous defects in CASR can be a cause of primary hyperparathyroidism in adulthood. Patients suffer from osteoporosis and renal calculi, have marked hypercalcemia and increased serum PTH concentrations. **Similarity:** Belongs to the G-protein coupled receptor 3 family. **Database links:** **Entrez Gene:** 281038 Cow **Entrez Gene:** 846 Human **Entrez Gene:** 12374 Mouse **Entrez Gene:** 24247 Rat Omim: 601199 Human **SwissProt:** P35384 Cow **SwissProt:** P41180 Human **SwissProt:** Q9QY96 Mouse **SwissProt:** P48442 Rat **Unigene:** 435615 Human **Unigene:** 103619 Mouse

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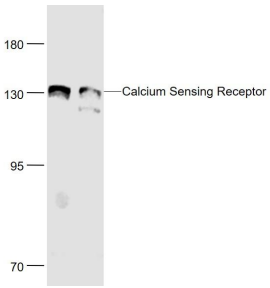
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	Unigene: 10019 Rat

[VALIDATION IMAGES]



Sample:
Cerebrum (Rat) Lysate at 40 ug
Cerebellum (Mouse) Lysate at 40 ug
Primary: Anti- Calcium Sensing Receptor (SL22371R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 118 kD
Observed band size: 130 kD

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