产品名称：CaSR (phospho Thr888) Rabbit Polyclonal Antibody
产品货号：APRab04376

产品概述（Summary）

产品名称（Production Name）	CaSR (phospho Thr888) Rabbit Polyclonal Antibody
描述（Description）	Rabbit polyclonal Antibody
宿主（Host）	Rabbit
应用（Application）	WB,ICC/IF,ELISA
种属反应性（Reactivity）	Human,Mouse,Rat

产品性能（Performance）

偶联物（Conjugation）	Unconjugated
修饰（Modification）	Phosphorylated
同种型（Isotype）	IgG
克隆（Clonality）	Polyclonal
形式（Form）	Liquid
存放说明（Storage）	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液（Buffer）	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式（Purification）	Affinity purification

免疫原信息（Immunogen）

基因名（Gene Name）	CASR
别名（Alternative Names）	CASR; GPRC2A; PCAR1; Extracellular calcium-sensing receptor; CaSR; Parathyroid cell calcium-sensing receptor; PCaR1
基因 ID（Gene ID）	846.0
蛋白 ID（SwissProt ID）	P41180.The antiserum was produced against synthesized peptide derived from human Calcium Sensing Receptor around the phosphorylation site of Thr888. AA range:854-903

产品应用（Application）

稀释比（Dilution Ratio）	WB 1:500-1:2000,ICC/IF 1:200-1:1000,ELISA 1:20000-1:40000

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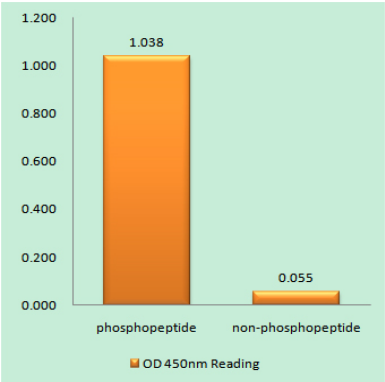
蛋白分子量（Molecular Weight） 140kDa

研究背景（Background）

The protein encoded by this gene is a G protein-coupled receptor that is expressed in the parathyroid hormone (PTH)-producing chief cells of the parathyroid gland, and the cells lining the kidney tubule. It senses small changes in circulating calcium concentration and couples this information to intracellular signaling pathways that modify PTH secretion or renal cation handling, thus this protein plays an essential role in maintaining mineral ion homeostasis. Mutations in this gene cause familial hypocalciuric hypercalcemia, familial, isolated hypoparathyroidism, and neonatal severe primary hyperparathyroidism. [provided by RefSeq, Jul 2008],disease:Defects in CASR are the cause of autosomal dominant hypoparathyroidism (FIH) [MIM:146200]. FIH is characterized by hypocalcemia and hyperphosphatemia due to inadequate secretion of parathyroid hormone. Symptoms are seizures, tetany and cramps.,disease:Defects in CASR are the cause of familial hypocalciuric hypercalcemia type 1 (FHH) [MIM:145980]; in which the receptor has reduced activity. FHH is characterized by altered calcium homeostasis. Affected individuals exhibit mild or modest hypercalcemia, relative hypocalciuria, and inappropriately normal PTH levels.,disease:Defects in CASR are the cause of neonatal severe primary hyperparathyroidism (NSHPT) [MIM:239200]; in which the receptor has reduced activity. 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.,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.,PTM:N-glycosylated.,PTM:Ubiquitinated by RNF19A; which induces proteasomal degradation.,similarity:Belongs to the G-protein coupled receptor 3 family.,subunit:Interacts with VCP and RNF19A.,tissue specificity:Found in kidney, but not in brain, lung, liver, heart, skeletal muscle, or placenta.,

研究领域（Research Area）

图片（Image Data）



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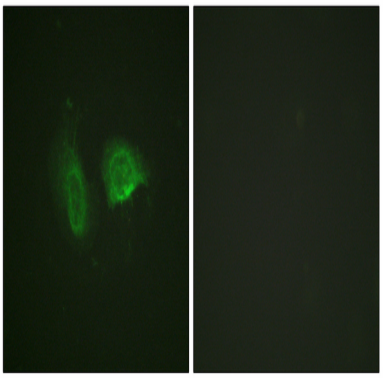
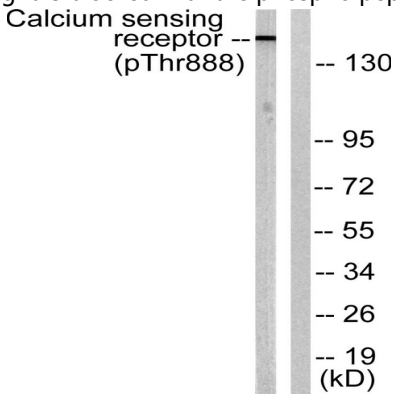
Enzyme-Linked Immunosorbent Assay （Phospho-ELISA） for Immunogen Phosphopeptide （Phospho-left） and Non-Phosphopeptide （Phospho-right）, using Calcium Sensing Receptor （Phospho-Thr888） Antibody



Immunofluorescence analysis of HeLa cells, using Calcium Sensing Receptor （Phospho-Thr888） Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from LOVO cells, using Calcium Sensing Receptor （Phospho-Thr888） Antibody. The lane on the right is blocked with the phospho peptide.

注意事项（Note）

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