abcam

Product datasheet

Recombinant Human CaSR protein ab114274

1 图像

描述

产品名称	重组人CaSR蛋白
表达系统	Wheat germ
Accession	P41180
蛋白长度	Protein fragment
无动物成分	No
性质	Recombinant
种属	Human
序列	GPDQRAQKKGDIILGGLFPIHFGVAAKDQDLKSRPESVECIR YNFRGFRW LQAMIFAIEEINSSPALLPNLTLGYRIFDTCNTVSKALEATL SFVAQNKI DSLNLDEFCN
预测分子量	38 kDa including tags
氨基酸	21 to 130

技术指标

Our **Abpromise guarantee** covers the use of **ab114274** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	ELISA SDS-PAGE Western blot
形式	Liquid
补充说明	This product was previously labelled as Calcium Sensing Receptor.

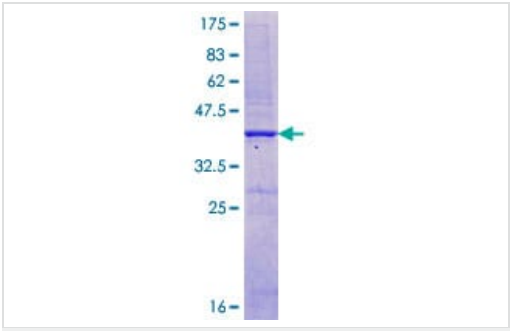
制备和贮存

稳定性和存储	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl

常规信息

功能	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.
组织特异性	Expressed in the temporal lobe, frontal lobe, parietal lobe, hippocampus, and cerebellum. Also found in kidney, lung, liver, heart, skeletal muscle, placenta.
疾病相关	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 idiopathic generalized epilepsy type 8 (IGE8) [MIM:612899]; also known as EIG8. 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.
序列相似性	Belongs to the G-protein coupled receptor 3 family.
翻译后修饰	N-glycosylated. Ubiquitinated by RNF19A; which induces proteasomal degradation.
细胞定位	Cell membrane.

图片



SDS-PAGE - Recombinant Human CaSR protein (ab114274)

12.5% SDS-PAGE analysis of ab114274 stained with Coomassie Blue.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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