

CASR

Reactivity: Human Mouse

Tested applications: WB

Recommended Dilution: WB 1:500 - 1:2000

Calculated MW: 66kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human CASR

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Synonym:

CAR; FHH; FIH; GPRC2A; HHC; HHC1; MGC138441; NSHPT; PCAR1

Catalog #: A1426

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID: 846

Isotype: IgG

Swiss Prot: Q969H0

Purity: Affinity purification

For research use only.

Background:

CASR, also named as GPRC2A, PCAR1, belongs to the G-protein coupled receptor 3 family. Changes in extracellular calcium are thought to modulate a balance between proliferation and differentiation in a variety of cell types. The activity of CASR is mediated by a G-protein that activates a phosphatidylinositol-calcium second messenger system. It has been shown to play a major role in regulating parathyroid hormone secretion and subsequently influencing the calcium concentration of extracellular fluids. In normal primary keratinocytes and breast epithelial cells, proliferation is inhibited and elevated extracellular calcium levels trigger differentiation. Malignant transformations of these cell types are accompanied by a loss of responsiveness to the anti-proliferative effects of elevated extracellular calcium. Several disorders of calcium homeostasis have been linked to mutations in the CaSR. These include familial hypocalciuric hypercalcemia (FHH), neonatal severe hyperparathyroidism (NSHPT), and autosomal dominant hypocalcemia (ADHypo).

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