

## Anti-Calcium Sensing Receptor/CASR Antibody Picoband® FITC Conjugated

Catalog Number: PB9924-FITC

### About CASR

The calcium-sensing receptor (CaSR) 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.

### Overview

Product Name	Anti-Calcium Sensing Receptor/CASR Antibody Picoband® FITC Conjugated
Reactive Species	Human, Mouse, Rat
Application	Flow Cytometry
Clonality	Polyclonal
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Rabbit
Uniprot ID	P41180

### Technical Details

Immunogen	E. coli-derived human CASR recombinant protein (Position: Q926-S1078). Human CASR shares 80.5% and 78.6% amino acid (aa) sequence identity with mouse and rat CASR, respectively.
Cross Reactivity	No cross-reactivity with other proteins
Isotype	Rabbit IgG
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.
Conjugate	FITC Excitation Wavelength: 495 nm Emission Wavelength: 525 nm

Suggested Dilutions

Flow Cytometry, Optimal dilutions should be determined by end users.

## 2 Publications Citing This Product

1. PubMed ID: -, Wouter H. van Megen, Rebecca Tan, R. Todd Alexander, Henrik Dimke bioRxiv 2021.02.01.429170; doi: <https://doi.org/10.1101/2021.02.01.429170>

2. PubMed ID: 28674286, Yuan, H., Shi, Y., Li, Y., Yang, L., Tang, Y., Hu, Z.,..., & Tang, C. (2017). Evaluation of a TPTX model induced by ischemia. Experimental Animals. Advance online publication. doi: 10.1538/expanim.17-0029

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