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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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# Anti-Calcium Sensing Receptor/CASR Antibody Picoband® Cy3 Conjugated

**Catalog Number:** PB9924-Cy3

## 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

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| Product Name | Anti-Calcium Sensing Receptor/CASR Antibody Picoband® Cy3 Conjugated |
| Reactive Species | Human, Mouse, Rat |
| Application | Flow Cytometry |
| Clonality | Polyclonal |
| Formulation | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na2HPO4, 0.02% NaN3. |
| 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

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| 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 | Cy3<br>Excitation Wavelength: 554 nm<br>Emission Wavelength: 568 nm |

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| 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

Visit bosterbio.com/anti-casr-picoband-trade-antibody-pb9924-boster.html to see all 2 publications.



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For Research Use Only. Not for use in diagnostic procedures.