

Anti-GNAQ Antibody Picoband® (monoclonal, 13H4) PE Conjugated

Catalog Number: M00898-PE

About GNAQ

Guanine nucleotide-binding protein G (q) subunit alpha is a protein that in humans is encoded by the GNAQ gene. Guanine nucleotide-binding proteins are a family of heterotrimeric proteins that couple cell surface, 7-transmembrane domain receptors to intracellular signaling pathways. Receptor activation catalyzes the exchange of GDP for GTP bound to the inactive G protein alpha subunit resulting in a conformational change and dissociation of the complex. The G protein alpha and beta-gamma subunits are capable of regulating various cellular effectors. Activation is terminated by a GTPase intrinsic to the G-alpha subunit. G-alpha-q is the alpha subunit of one of the heterotrimeric GTP-binding proteins that mediates stimulation of phospholipase C-beta. Mutations in this gene have been found associated to cases of Sturge-Weber syndrome and port-wine stains.

Overview

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| Product Name | Anti-GNAQ Antibody Picoband® (monoclonal, 13H4) PE Conjugated |
| Reactive Species | Human, Monkey, Mouse, Rat |
| Application | Recommended applications are based on the parent unconjugated antibody (Flow Cytometry, IHC, WB). Customers may select suitable applications according to their experimental needs. |
| Clonality | Monoclonal 13H4 |
| Formulation | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% NaN ₃ . |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light. |
| Host | Mouse |
| Uniprot ID | P50148 |

Technical Details

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| Immunogen | A synthetic peptide corresponding to a sequence at the N-terminus of human GNAQ, identical to the related mouse and rat sequences. |
| Cross Reactivity | No cross-reactivity with other proteins. |
| Isotype | Mouse IgG2b |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Conjugate | PE Excitation Wavelength: 566 nm Emission Wavelength: 574 nm |

Suggested Dilutions

Optimal dilutions should be determined by end users.

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