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GNAO1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP9134b

Specification

GNAO1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P09471

GNAO1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 2775

Other Names
Guanine nucleotide-binding protein G(o) subunit alpha, GNAO1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP9134b was selected from the C-term region of human GNAO1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GNAO1 Antibody (C-term) Blocking Peptide - Protein Information

Name GNAO1

Function
Guanine nucleotide-binding proteins (G proteins) function as transducers downstream of G protein-coupled receptors (GPCRs) in numerous signaling cascades (PubMed:29925951, PubMed:33408414). The alpha chain contains the guanine nucleotide binding site and alternates between an active, GTP-bound state and an inactive, GDP-bound state (By similarity). Signaling by an activated GPCR promotes GDP release and GTP binding (By similarity). The alpha subunit has a low GTPase activity that converts bound GTP to GDP, thereby terminating the signal (By similarity). Both GDP release and GTP hydrolysis are modulated by numerous regulatory proteins (By similarity). Signaling is mediated via effector proteins, such as adenylate cyclase (By similarity). Inhibits adenylate cyclase activity, leading to decreased intracellular cAMP levels (By similarity).

Cellular Location
Cell membrane. Membrane; Lipid-anchor

GNAO1 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

GNAO1 Antibody (C-term) Blocking Peptide - Images

GNAO1 Antibody (C-term) Blocking Peptide - Background

Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. The G(o) protein function is not clear.

GNAO1 Antibody (C-term) Blocking Peptide - References

Yi,F., et.al., J. Biol. Chem. 266 (6), 3900-3906 (1991)