

GNA11 Antibody(N-term) Blocking peptide
Synthetic peptide
Catalog # BP19441a**Specification**

GNA11 Antibody(N-term) Blocking peptide - Product InformationPrimary Accession [P29992](#)**GNA11 Antibody(N-term) Blocking peptide - Additional Information**

Gene ID 2767

Other Names

Guanine nucleotide-binding protein subunit alpha-11, G alpha-11, G-protein subunit alpha-11, Guanine nucleotide-binding protein G(y) subunit alpha, GNA11, GA11

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.

GNA11 Antibody(N-term) Blocking peptide - Protein Information

Name GNA11

Synonyms GA11

Function

Guanine nucleotide-binding proteins (G proteins) function as transducers downstream of G protein-coupled receptors (GPCRs) in numerous signaling cascades (PubMed:31073061). The alpha chain contains the guanine nucleotide binding site and alternates between an active, GTP-bound state and an inactive, GDP-bound state (PubMed:31073061). Signaling by an activated GPCR promotes GDP release and GTP binding (PubMed:31073061). The alpha subunit has a low GTPase activity that converts bound GTP to GDP, thereby terminating the signal (PubMed:31073061). Both GDP release and GTP hydrolysis are modulated by numerous regulatory proteins (PubMed:31073061). Signaling is mediated via phospholipase C-beta-dependent inositol lipid hydrolysis for signal propagation: activates phospholipase C-beta: following GPCR activation, GNA11 activates PLC-beta (PLCB1, PLCB2, PLCB3 or PLCB4), leading to production of diacylglycerol (DAG) and inositol

1,4,5-trisphosphate (IP3) (PubMed:31073061). Transduces FFAR4 signaling in response to long-chain fatty acids (LCFAs) (PubMed:27852822). Together with GNAQ, required for heart development (By similarity). In the respiratory epithelium, transmits OXGR1-dependent signals that lead to downstream intracellular Ca(2+) release and mucocilliary clearance of airborne pathogens.

Cellular Location

Cell membrane; Lipid-anchor. Cytoplasm. Note=In testicular cells, expressed exclusively in the cytoplasm.

Tissue Location

Expressed in testis..

GNA11 Antibody(N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

GNA11 Antibody(N-term) Blocking peptide - Images**GNA11 Antibody(N-term) Blocking peptide - Background**

Guanine nucleotide-binding proteins (G proteins) are involved as modulators or transducers in various transmembrane signaling systems. Acts as an activator of phospholipase C.

GNA11 Antibody(N-term) Blocking peptide - References

Shankaranarayanan, A., et al. J. Biol. Chem. 283(50):34923-34934(2008)Gavard, J., et al. J. Biol. Chem. 283(44):29888-29896(2008)Luttrell, L.M. Mol. Biotechnol. 39(3):239-264(2008)Durchankova, D., et al. Physiol Res 57(2):195-203(2008)Hildebrand, M.E., et al. J. Biol. Chem. 282(29):21043-21055(2007)