

PDE11A Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP14002a**Specification**

PDE11A Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q9HCR9](#)**PDE11A Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 50940**Other Names**

Dual 3', 5'-cyclic-AMP and -GMP phosphodiesterase 11A, cAMP and cGMP phosphodiesterase 11A, PDE11A

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP14002a was selected from the N-term region of PDE11A. 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.

PDE11A Antibody (N-term) Blocking peptide - Protein Information**Name** PDE11A {ECO:0000303|PubMed:10906126, ECO:0000312|HGNC:HGNC:8773}**Function**

Plays a role in signal transduction by regulating the intracellular concentration of cyclic nucleotides cAMP and cGMP (PubMed:10725373, PubMed:10906126, PubMed:11050148, PubMed:16330539). Catalyzes the hydrolysis of both cAMP and cGMP to 5'-AMP and 5'-GMP, respectively (PubMed:10725373, PubMed:10906126, PubMed:11050148).

Cellular Location

Cytoplasm, cytosol.

Tissue Location

Isoform 1 is present in prostate, pituitary, heart and liver. It is however not present in testis nor in penis, suggesting that weak inhibition by Tadalafil (Cialis) is not relevant (at protein level). Isoform 2 may be expressed in testis. Isoform 4 is expressed in adrenal cortex.

PDE11A Antibody (N-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

PDE11A Antibody (N-term) Blocking peptide - Images**PDE11A Antibody (N-term) Blocking peptide - Background**

The 3',5'-cyclic nucleotides cAMP and cGMP function as second messengers in a wide variety of signal transduction pathways. 3',5'-cyclic nucleotide phosphodiesterases (PDEs) catalyze the hydrolysis of cAMP and cGMP to the corresponding 5'-monophosphates and provide a mechanism to downregulate cAMP and cGMP signaling. This gene encodes a member of the PDE protein superfamily. Mutations in this gene are a cause of Cushing disease and adrenocortical hyperplasia. Multiple transcript variants encoding different isoforms have been found for this gene.

PDE11A Antibody (N-term) Blocking peptide - References

DeWan, A.T., et al. J. Allergy Clin. Immunol. 126(4):871-873(2010) Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Perlis, R.H., et al. Biol. Psychiatry 67(11):1110-1113(2010) Bosker, F.J., et al. Mol. Psychiatry (2010) In press :