10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

AD_K2 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP7005a

Specification

AD_K2 Antibody (C-term) Blocking peptide - Product Information

Primary Accession P35626

AD_K2 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 157

Other Names
Beta-adrenergic receptor kinase 2, Beta-ARK-2, G-protein-coupled receptor kinase 3, ADRBK2, BARK2, GRK3

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7005a was selected from the C-term region of human GRK3 . 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.

AD_K2 Antibody (C-term) Blocking peptide - Protein Information

Name GRK3 (HGNC:290)

Function
Specifically phosphorylates the agonist-occupied form of the beta-adrenergic and closely related receptors.

Cellular Location
Postsynapse {ECO:0000250|UniProtKB:P26819}. Presynapse {ECO:0000250|UniProtKB:P26819}

AD_K2 Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

AD_K2 Antibody (C-term) Blocking peptide - Images

AD_K2 Antibody (C-term) Blocking peptide - Background

The beta-adrenergic receptor kinase specifically phosphorylates the agonist-occupied form of the beta-adrenergic and related G protein-coupled receptors. Overall, the ADRBK2 enzyme, also known as GRK3, has 85% amino acid similarity with ADRBK1, with the protein kinase catalytic domain having 95% similarity. The ADRBK2 mRNA is approximately 8 kilobases with a distribution similar to that of ADRBK1. These data suggest the existence of a family of receptor kinases which may serve broadly to regulate receptor function.

AD_K2 Antibody (C-term) Blocking peptide - References

Calabrese, G., et al., Genomics 23(1):286-288 (1994).Parruti, G., et al., Biochem. Biophys. Res. Commun. 190(2):475-481 (1993).Benovic, J.L., et al., J. Biol. Chem. 266(23):14939-14946 (1991).