

**NOS1AP Antibody (Center) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP10269c****Specification**

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**NOS1AP Antibody (Center) Blocking peptide - Product Information**

Primary Accession [O75052](#)  
Other Accession [NP\\_055512.1](#), [NP\\_001158229.1](#)

**NOS1AP Antibody (Center) Blocking peptide - Additional Information**

**Gene ID** 9722

**Other Names**

Carboxyl-terminal PDZ ligand of neuronal nitric oxide synthase protein, C-terminal PDZ ligand of neuronal nitric oxide synthase protein, Nitric oxide synthase 1 adaptor protein, NOS1AP, CAPON, KIAA0464

**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.

**NOS1AP Antibody (Center) Blocking peptide - Protein Information**

**Name** NOS1AP ([HGNC:16859](#))

**Synonyms** CAPON, KIAA0464

**Function**

Adapter protein involved in neuronal nitric-oxide (NO) synthesis regulation via its association with nNOS/NOS1. The complex formed with NOS1 and synapsins is necessary for specific NO and synapsin functions at a presynaptic level. Mediates an indirect interaction between NOS1 and RASD1 leading to enhance the ability of NOS1 to activate RASD1. Competes with DLG4 for interaction with NOS1, possibly affecting NOS1 activity by regulating the interaction between NOS1 and DLG4 (By similarity). In kidney podocytes, plays a role in podosomes and filopodia formation through CDC42 activation (PubMed:<a href="http://www.uniprot.org/citations/33523862" target="\_blank">33523862</a>).

**Cellular Location**

Cell projection, filopodium {ECO:0000250|UniProtKB:O54960}. Cell projection, podosome {ECO:0000250|UniProtKB:O54960}

**Tissue Location**

Expressed in kidney glomeruli podocytes.

**NOS1AP Antibody (Center) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**NOS1AP Antibody (Center) Blocking peptide - Images****NOS1AP Antibody (Center) Blocking peptide - Background**

This gene encodes a cytosolic protein that binds to the signaling molecule, neuronal nitric oxide synthase (nNOS). This protein has a C-terminal PDZ-binding domain that mediates interactions with nNOS and an N-terminal phosphotyrosine binding (PTB) domain that binds to the small monomeric G protein, Dexras1. Studies of the related mouse and rat proteins have shown that this protein functions as an adapter protein linking nNOS to specific targets, such as Dexras1 and the synapsins. Alternative splicing results in multiple transcript variants encoding different isoforms.

**NOS1AP Antibody (Center) Blocking peptide - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Lu, J., et al. Diabet. Med. 27(9):1074-1079(2010) Husted, J.A., et al. Schizophr. Res. 121 (1-3), 187-192 (2010) :Tomas, M., et al. J. Am. Coll. Cardiol. 55(24):2745-2752(2010) Delorme, R., et al. BMC Med. Genet. 11, 108 (2010) :