

**NOS1AP Antibody (Center)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP10269c**

**Specification**

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

Application	WB, FC,E
Primary Accession	<a href="#">O75052</a>
Other Accession	<a href="#">O54960</a> , <a href="#">O9D3A8</a> , <a href="#">NP_055512.1</a> , <a href="#">NP_001158229.1</a>
Reactivity	Human
Predicted	Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	56150
Antigen Region	437-466

**NOS1AP Antibody (Center) - 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

**Target/Specificity**

This NOS1AP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 437-466 amino acids from the Central region of human NOS1AP.

**Dilution**

WB~~1:1000  
FC~~1:10~50

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

NOS1AP Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

**NOS1AP Antibody (Center) - 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:[33523862](#)).

#### Cellular Location

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

#### Tissue Location

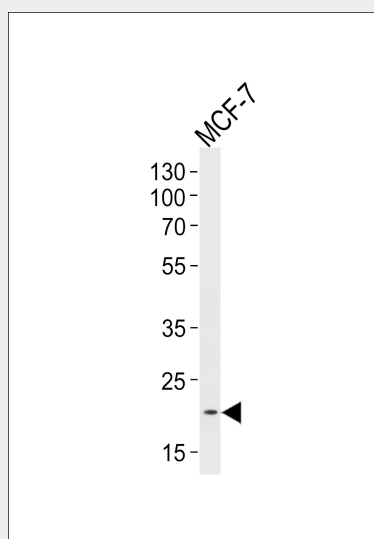
Expressed in kidney glomeruli podocytes.

### NOS1AP Antibody (Center) - Protocols

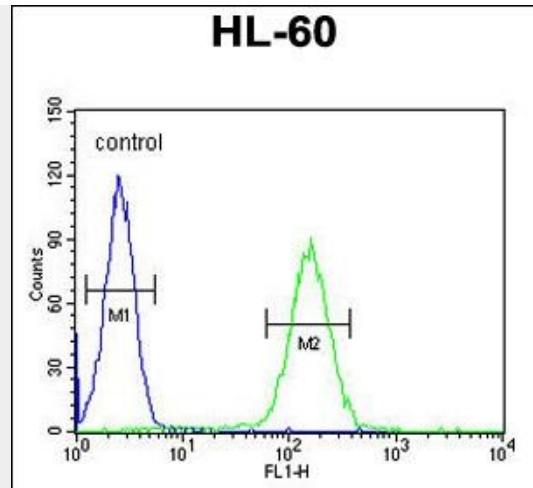
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### NOS1AP Antibody (Center) - Images



Western blot analysis of lysate from MCF-7 cell line, using NOS1AP Antibody (Center)(Cat. #AP10269c). AP10269c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.



NOS1AP Antibody (Center) (Cat. #AP10269c) flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

### **NOS1AP Antibody (Center) - 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, Dexas1. 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 Dexas1 and the synapsins. Alternative splicing results in multiple transcript variants encoding different isoforms.

### **NOS1AP Antibody (Center) - 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) :