

## Product datasheet for **AP52913PU-N**

### **CAPON (NOS1AP) (Center) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	FC, WB
Recommended Dilution:	<b>Flow cytometry:</b> 1/10-1/50. <b>Western blot:</b> 1/100-1/500. Enzyme immunoassay: 1/1000.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	Synthetic peptide - KLH conjugated - corresponding to the central region (between 444-474aa) of human NOS1AP
Specificity:	This antibody recognizes human NOS1AP.
Formulation:	PBS with 0.09% (W/V) Sodium azide State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Purified through a Protein A column followed by peptide affinity purification
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	nitric oxide synthase 1 adaptor protein
Database Link:	<a href="#">Entrez Gene 9722 Human</a> <a href="#">O75052</a>



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**Background:**

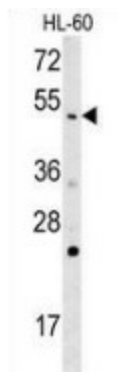
The NOS1AP gene encodes a cytosolic protein that binds to the signaling molecule, neuronal nitric oxide synthase (nNOS). This protein has a C-terminal PDZ-binding domain that mediates interactions with nNOS and an N-terminal phosphotyrosine binding (PTB) domain that binds to the small monomeric G protein, 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.

**Synonyms:**

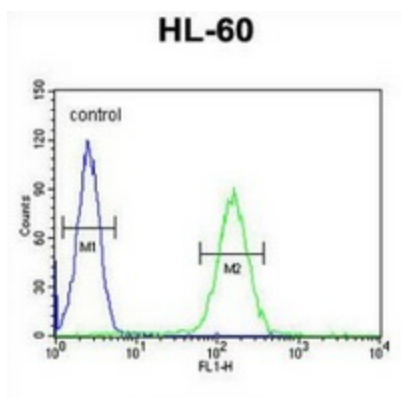
CAPON, KIAA0464

**Note:**

**Molecular Weight:** 56150 Da

**Product images:**

Western blot analysis in HL-60 cell line lysates (35ug/lane) using NOS1AP antibody. This demonstrates this antibody detected the NOS1AP protein (arrow).



Flow cytometric analysis of HL-60 cells (right histogram) compared to a negative control cell (left histogram) using NOS1AP antibody, followed by FITC-conjugated goat-anti-rabbit secondary antibodies.