

DDAH2 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP10387c**Specification**

DDAH2 Antibody (Center) Blocking peptide - Product Information

Primary Accession [O95865](#)
Other Accession [NP_039268.1](#)

DDAH2 Antibody (Center) Blocking peptide - Additional Information

Gene ID 23564

Other Names

N(G), N(G)-dimethylarginine dimethylaminohydrolase 2, DDAH-2, Dimethylarginine dimethylaminohydrolase 2, DDAHII, Dimethylargininase-2, Protein G6a, S-phase protein, DDAH2, DDAH, G6A, NG30

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.

DDAH2 Antibody (Center) Blocking peptide - Protein Information

Name DDAH2 ([HGNC:2716](#))

Synonyms DDAH, G6A, NG30

Function

Putative hydrolase with unknown substrate (Probable). Does not hydrolyze N(G),N(G)-dimethyl-L-arginine (ADMA) which acts as an inhibitor of NOS (PubMed:37296100, PubMed:21493890). In endothelial cells, induces expression of vascular endothelial growth factor (VEGF) via phosphorylation of the transcription factor SP1 by PKA in a process that is independent of NO and NO synthase (By similarity). Similarly, enhances pancreatic insulin secretion through SP1-mediated transcriptional up-regulation of secretagogin/SCGN, an insulin vesicle docking protein (By similarity). Upon viral infection, relocates to mitochondria where it promotes mitochondrial fission through activation of DNM1L leading to the inhibition of innate response activation mediated by MAVS (PubMed:33850055).

Cellular Location

Cytoplasm. Mitochondrion Note=Translocates from cytosol to mitochondrion upon IL1B stimulation in chondrocytes

Tissue Location

Detected in heart, placenta, lung, liver, skeletal muscle, kidney and pancreas, and at very low levels in brain

DDAH2 Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

DDAH2 Antibody (Center) Blocking peptide - Images**DDAH2 Antibody (Center) Blocking peptide - Background**

This gene belongs to the dimethylargininedimethylaminohydrolase (DDAH) gene family. The encoded enzyme plays a role in nitric oxide generation by regulating cellular concentrations of methylarginines, which in turn inhibit nitric oxide synthase activity.

DDAH2 Antibody (Center) Blocking peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Caplin, B., et al. Kidney Int. 77(5):459-467(2010)Abhary, S., et al. PLoS ONE 5 (3), E9462 (2010) :Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)Barcellos, L.F., et al. PLoS Genet. 5 (10), E1000696 (2009) :