

DDAH2 Antibody
Rabbit mAb
Catalog # AP91799**Specification****DDAH2 Antibody - Product Information**

Application	WB, IP
Primary Accession	O95865
Reactivity	Rat
Clonality	Monoclonal
Other Names	
DDAH; DDAH II; DDAH2; DDAHII; Dimethylargininase 2; G6a;	
Isotype	Rabbit IgG
Host	Rabbit
Calculated MW	29644 Da

DDAH2 Antibody - Additional Information

Dilution	WB~~1:1000 IP~~N/A
Purification	Affinity-chromatography
Immunogen	A synthesized peptide derived from human DDAH2
Description	Hydrolyzes N(G),N(G)-dimethyl-L-arginine (ADMA) and N(G)-monomethyl-L-arginine (MMA) which act as inhibitors of NOS. Has therefore a role in the regulation of nitric oxide generation.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

DDAH2 Antibody - 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:21493890, PubMed:37296100). 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

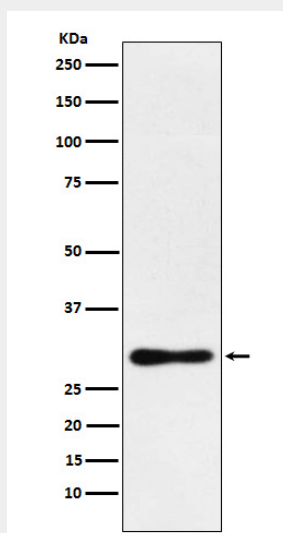
Detected in heart, placenta, lung, liver, skeletal muscle, kidney and pancreas, and at very low levels in brain

DDAH2 Antibody - 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](#)

DDAH2 Antibody - Images



Western blot analysis of DDAH2 expression in MCF7 cell lysate.