

# Anti-DDAH2 Monoclonal Antibody

Catalog # ABO14663

## Product Information

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|--------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IP                                                                                                       |
| <b>Primary Accession</b> | <a href="#">O95865</a>                                                                                       |
| <b>Host</b>              | Rabbit                                                                                                       |
| <b>Isotype</b>           | Rabbit IgG                                                                                                   |
| <b>Reactivity</b>        | Rat, Human, Mouse                                                                                            |
| <b>Clonality</b>         | Monoclonal                                                                                                   |
| <b>Format</b>            | Liquid                                                                                                       |
| <b>Description</b>       | Anti-DDAH2 Monoclonal Antibody . Tested in WB, IP applications. This antibody reacts with Human, Mouse, Rat. |

## Additional Information

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| <b>Gene ID</b>                         | 23564                                                                                                                                                                                                                                                        |
| <b>Other Names</b>                     | Putative hydrolase DDAH2, 3.-.-., DDAHII, Inactive N(G), N(G)-dimethylarginine dimethylaminohydrolase 2, DDAH-2, Inactive dimethylarginine dimethylaminohydrolase 2, Protein G6a, S-phase protein, DDAH2 ( <a href="#">HGNC:2716</a> ), DDAH, G6A, NG30      |
| <b>Calculated MW</b>                   | 29644                                                                                                                                                                                                                                                        |
| <b>Application Details</b>             | WB 1:500-1:2000<br>IP 1:50                                                                                                                                                                                                                                   |
| <b>Source</b>                          | Eukaryota                                                                                                                                                                                                                                                    |
| <b>Contents</b>                        | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.                                                                                                                                          |
| <b>Clone Names</b><br><b>Immunogen</b> | Clone: AEGG-4<br>A synthesized peptide derived from human DDAH2 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. |
| <b>Purification</b>                    | Affinity-chromatography                                                                                                                                                                                                                                      |
| <b>Storage</b>                         | Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.                                                                                                                   |

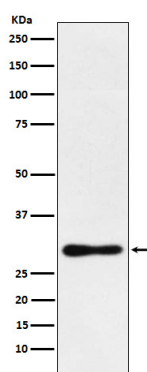
## Protein Information

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|-------------|-------------------------------------|
| <b>Name</b> | DDAH2 ( <a href="#">HGNC:2716</a> ) |
|-------------|-------------------------------------|

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| <b>Synonyms</b>          | DDAH, G6A, NG30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Function</b>          | 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: <a href="#">21493890</a> , PubMed: <a href="#">37296100</a> ). 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: <a href="#">33850055</a> ). |
| <b>Cellular Location</b> | Cytoplasm. Mitochondrion Note=Translocates from cytosol to mitochondrion upon IL1B stimulation in chondrocytes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Tissue Location</b>   | Detected in heart, placenta, lung, liver, skeletal muscle, kidney and pancreas, and at very low levels in brain                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## Images



Western blot analysis of DDAH2 expression in MCF7 cell lysate.

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