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Rabbit Anti-DDAH1 antibody

SL11997R

Product Name	DDAH1
Chinese Name	双甲基精氨酸水解酶 1 抗体
Alias	DDAH; DDAH I; DDAH-1; DDAH1; DDAH1_HUMAN; DDAHI; Dimethylargininase 1; Dimethylargininase-1; Dimethylarginine dimethylaminohydrolase 1; N(G); N(G)-dimethylarginine dimethylaminohydrolase 1; NG NG dimethylarginine dimethylaminohydrolase.
Research Area	Cardiovascular Cell biology Neurobiology vascular endothelial cell
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse(predicted:Human,Rat,Dog,Pig,Cow,Rabbit,Sheep)
Applications	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	31kDa
Cellular localization	cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human DDAH1: 201-285/285
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product Detail	DDAH, a dimethylarginine dimethylaminohydrolase, hydrolyzes dimethyl

arginine (ADMA) and monomethyl arginine (MMA), both inhibitors of nitric oxide synthases, and may be involved in in-vivo modulation of nitric oxide production (1,2). Impairment of DDAH causes ADMA accumulation and a reduction in cGMP generation (3). DDAH II, the predominant DDAH isoform in endothelial cells, facilitates the induction of nitric oxide synthesis by all-trans-Retinoic acid (atRA) (4). DDAH proteins are highly expressed in colon, kidney, stomach and liver tissues (1).

Function:
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.

Subunit:
Monomer.

Tissue Specificity:
Detected in brain, liver, kidney and pancreas, and at low levels in skeletal muscle.

Similarity:
Belongs to the DDAH family.

SWISS:
O94760

Gene ID:
23576

Database links:

Entrez Gene: 23576 Human

Entrez Gene: 69219 Mouse

Entrez Gene: 64157 Rat

Omim: 604743 Human

SwissProt: P56965 Cow

SwissProt: O94760 Human

SwissProt: Q9CWS0 Mouse

SwissProt: O08557 Rat

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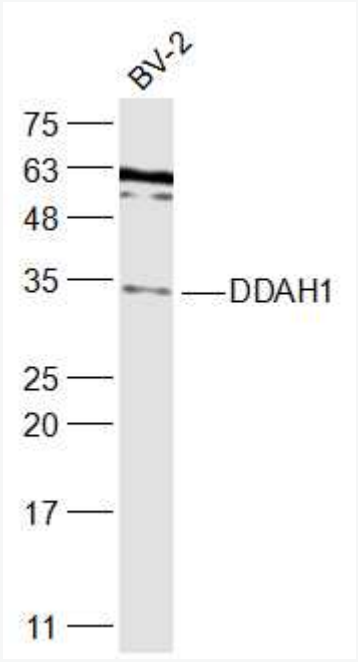
Product Picture



Sample:

BV-2(Mouse) Cell Lysate at 30 ug

Primary: Anti-DDAH1 (SL11997R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 31 kD

Observed band size: 33 kD