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**Box 1 | Basic Info**

Cat. No.	ABP-PAB-10964
Animal ID	RB4537-4538
Host	Rabbit
Reactivity	Human
Format	Purified
Accession number	NM_012137
Amount	100 µg

**Alternative Name(s):** DDAH, NG-dimethylarginine dimethylaminohydrolase

## DDAH1, Dimethylarginine dimethylaminohydrolase 1 polyclonal antibody

Dimethylarginine dimethylaminohydrolase 1 (DDAH1) plays a role in nitric oxide generation by regulating cellular concentrations of methylarginines, which in turn inhibit nitric oxide synthase activity.

### Buffers

Purified rabbit polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.

### Immunogen

KLH conjugated synthetic peptide comprised of amino acids 27 - 40 [QHALRSAGGEEVDV] of the human dimethylarginine dimethylaminohydrolase 1 (DDAH1) protein.

### Application:

Tested by peptide-specific ELISA (1:1,000).

### Storage:

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C. Avoid repeated freeze-thaw cycles.

### References:

1. Tran CT, Fox MF, Vallance P, Leiper JM: Chromosomal localization, gene structure, and expression pattern of DDAH1: comparison with DDAH2 and implications for evolutionary origins. *Genomics* 68(1): 101-105 (2000).
2. Birdsey GM, Leiper JM, Vallance P: Intracellular localization of dimethylarginine dimethylaminohydrolase overexpressed in an endothelial cell line. *Acta Physiol. Scand.* 168(1): 73-79 (2000).
3. Leiper JM, Santa Maria J, Chubb A, MacAllister RJ, Charles IG, Whitley GS, Vallance P: Identification of two human dimethylarginine dimethylaminohydrolases with distinct tissue distributions and homology with microbial arginine deiminases. *Biochem. J.* 343 Pt 1: 209-214 (1999).
4. Kimoto M, Miyatake S, Sasagawa T, Yamashita H, Okita M, Oka T, Ogawa T, Tsuji H: Purification, cDNA cloning and expression of human NG,NG-dimethylarginine dimethylaminohydrolase. *Eur. J. Biochem.* 258(2): 863-868 (1998).