

Datasheet for ABIN4886560
anti-DDAH1 antibody (C-Term)



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1 Image

Overview

Quantity:	100 µg
Target:	DDAH1
Binding Specificity:	AA 195-226, C-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This DDAH1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-DDAH1 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human DDAH1, different from the related mouse and rat sequences by one amino acid.
Sequence:	QKALKIMQQM SDHRYDKLTV PDDIAANCIY LN
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-DDAH1 Antibody Picoband® (ABIN4886560). Tested in Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are

Product Details

designated as Picoband, ensuring unmatched performance.

Purification: Immunogen affinity purified.

Target Details

Target: DDAH1

Alternative Name: DDAH1 ([DDAH1 Products](#))

Background: Synonyms: N (G),N (G)-dimethylarginine dimethylaminohydrolase 1,DDAH-1,Dimethylarginine dimethylaminohydrolase 1,3.5.3.18,DDAH1,Dimethylargininase-1,DDAH1,DDAH,
Tissue Specificity: Detected in brain, liver, kidney and pancreas, and at low levels in skeletal muscle. .
Background: DDAH1 is known as dimethylarginine dimethylaminohydrolase 1 which is mapped to chromosome 1p22 by radiation hybrid and FISH analysis. This gene belongs to the dimethylarginine dimethylaminohydrolase (DDAH) gene family. DDAH1 plays a role in nitric oxide generation by regulating cellular concentrations of methylarginines, which in turn inhibit nitric oxide synthase activity. It is widely expressed, especially in liver and kidney.
Sequence Similarities: Belongs to the transient receptor (TC 1.A.4) family. STpC subfamily. TRPC4 sub-subfamily.

Molecular Weight: 31 kDa, 37 kDa

Gene ID: 23576

UniProt: [094760](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat
Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Mouse, Rat
Immunocytochemistry/Immunofluorescence, 2 µg/mL, Human
Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human
1. Dayoub, H., Achan, V., Adimoolam, S., Jacobi, J., Stuehlinger, M. C., Wang, B., Tsao, P. S., Kimoto, M., Vallance, P., Patterson, A. J., Cooke, J. P. Dimethylarginine dimethylaminohydrolase regulates nitric oxide synthesis: genetic and physiological evidence. *Circulation* 108: 3042-3047, 2003. 2. Millatt, L. J., Whitley, G. StJ., Li, D., Leiper, J. M., Siragy, H. M., Carey, R. M., Johns, R. A. Evidence for dysregulation of dimethylarginine dimethylaminohydrolase I in chronic hypoxia-induced pulmonary hypertension. *Circulation* 108: 1493-1498, 2003. 3. Tran, C. T. L., Fox, M. F., Vallance, P., Leiper, J. M. Chromosomal localization, gene structure, and expression pattern of

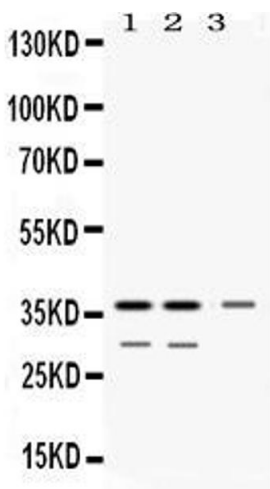
Application Details

	DDAH1: comparison with DDAH2 and implications for evolutionary origins. Genomics 68: 101-105, 2000.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of DDAH1 expression in rat kidney extract (Lane 1), mouse kidney extract (Lane 2) and HELA whole cell lysates (Lane 3). DDAH1 at 31KD, 37KD was detected using rabbit anti- DDAH1 Antigen Affinity purified polyclonal antibody (Catalog #) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method (Catalog # EK1002).