For Research Use Only

DDAH1 Polyclonal antibody

Catalog Number:30108-1-AP

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Basic Information

Catalog Number:
30108-1-AP

Size:
800 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG32516

GenBank Accession Number:
NM_012137

GeneID (NCBI):
23576

UNIPROT ID:
O94760

Full Name:
dimethylarginine dimethylaminohydrolase 1

Calculated MW:
31kd

Observed MW:
35 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:16000
IHC 1:1000-1:4000
IF-P 1:50-1:500

Applications

Tested Applications:
WB, IHC, IF-P, ELISA

Species Specificity:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : Caco-2 cells, SH-SY5Y cells, mouse brain tissue

IHC : mouse brain tissue, human stomach cancer tissue, rat brain tissue

IF-P : mouse eye tissue,

Background Information

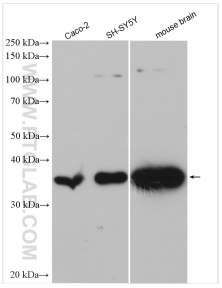
Dimethylarginine dimethylaminohydrolase 1 (DDAH1) is an enzyme that can degrade asymmetric dimethylarginine (ADMA), an endogenous nitric oxide synthase (NOS)inhibitor (PMID:26996393). About 80% of endogenous ADMA is metabolized by DDAH, principally the DDAH1 isoform (PMID:22460174). It was reported that DDAH1 is highly expressed in vascular endothelial cells in hearts (PMID:19917889). The observed molecular weight of DDAH1 is 35-40 kDa in the literature.

Storage

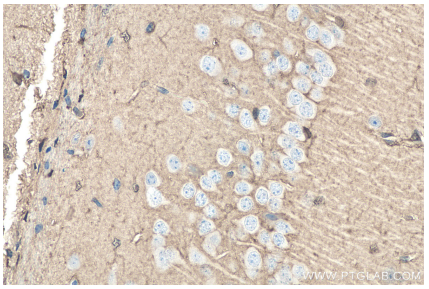
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

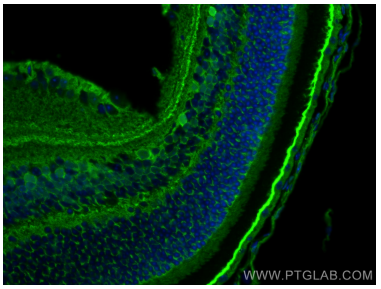
Selected Validation Data



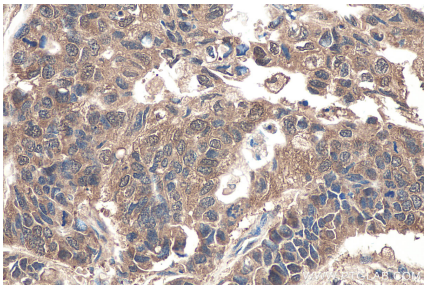
Various lysates were subjected to SDS PAGE followed by western blot with 30108-1-AP (DDAH1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



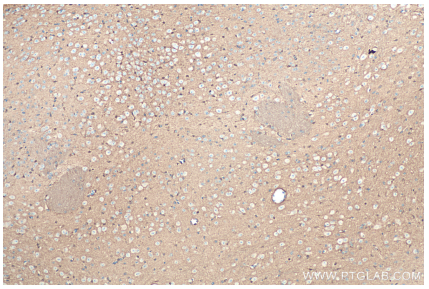
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 30108-1-AP (DDAH1 antibody) at dilution of 1:2000 (under 4x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



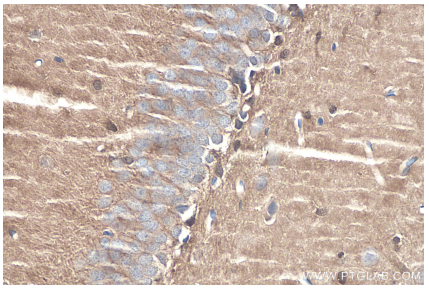
Immunofluorescent analysis of (4% PFA) fixed mouse eye tissue using DDAH1 antibody (30108-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 30108-1-AP (DDAH1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 30108-1-AP (DDAH1 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 30108-1-AP (DDAH1 antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).