

For Research Use Only

ADRA2A Polyclonal antibody

Catalog Number: 14266-1-AP

13 Publications



Basic Information

Catalog Number:

14266-1-AP

Size:

150ul, Concentration: 800 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5562

GenBank Accession Number:

BC050414

GeneID (NCBI):

150

UNIPROT ID:

P08913

Full Name:

adrenergic, alpha-2A-, receptor

Calculated MW:

49 kDa

Observed MW:

51 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:200-1:1000

IHC 1:200-1:800

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB : PC-12 cells,

IHC : mouse brain tissue,

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

Background Information

ADRA2A (Adrenoceptor Alpha-2) belongs to the adrenoceptor alpha-2 family of GPCRs coupled to the inhibitory G-alpha subunit (Gi) that suppresses adenylyl cyclase activity, thereby suppressing the cyclization of AMP to cAMP (PMID: 38132444). ADRA2A inhibits the flow of sympathetic nerves in the central nervous system and plays a major role in sedation, anxiolysis, and antinociception (PMID: 33915198).

Notable Publications

Author	Pubmed ID	Journal	Application
Yong-Jie Wang	28955200	Front Mol Neurosci	WB
Ching-Tzu Tseng	34737352	Sci Rep	WB
Bin Wang	28507504	Front Neurosci	WB

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

*** 20ul sizes contain 0.1% BSA

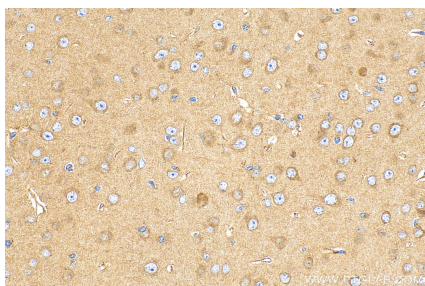
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

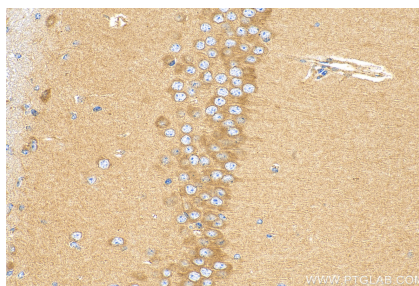
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

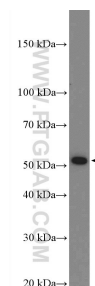
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 14266-1-AP (ADRA2A antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 14266-1-AP (ADRA2A antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



PC-12 cells were subjected to SDS PAGE followed by western blot with 14266-1-AP (ADRA2A Antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.