

For Research Use Only

ADRA2A Polyclonal antibody

Catalog Number: 14266-1-AP **12 Publications**



Basic Information

Catalog Number: 14266-1-AP	GenBank Accession Number: BC050414	Purification Method: Antigen affinity purification
Size: 800 µg/ml	GeneID (NCBI): 150	Recommended Dilutions: WB 1:200-1:1000 IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: P08913	
Isotype: IgG	Full Name: adrenergic, alpha-2A-, receptor	
Immunogen Catalog Number: AG5562	Calculated MW: 49 kDa	
	Observed MW: 51 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls: WB : PC-12 cells, IHC : mouse brain tissue,
Cited Applications: WB, IF, IHC	
Species Specificity: human, mouse, rat	
Cited Species: human, rat, mouse	
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 adenyl 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

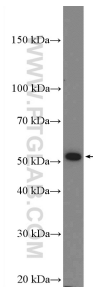
Storage

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

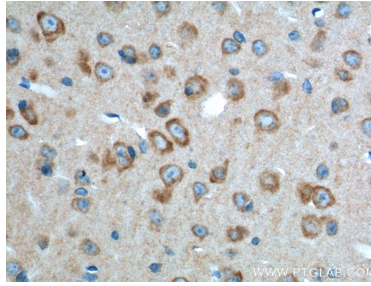
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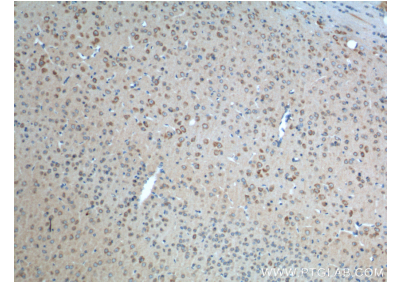
Selected Validation Data



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.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 14266-1-AP (ADRA2A Antibody) at dilution of 1:100 (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 1:100 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).