

For Research Use Only

CHRNA3 Polyclonal antibody

Catalog Number: 10333-1-AP

Featured Product

7 Publications



Basic Information

Catalog Number: 10333-1-AP	GenBank Accession Number: BC000513	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 1136	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:500-1:2000
Source: Rabbit	Full Name: cholinergic receptor, nicotinic, alpha 3	
Isotype: IgG	Calculated MW: 57 kDa	
Immunogen Catalog Number: AG0272	Observed MW: 50-55 kDa	

Applications

Tested Applications: FC, IHC, WB, ELISA	Positive Controls: WB : A549 cells, mouse brain tissue, HepG2 cells, mouse thymus tissue, HEK-293 cells IHC : mouse brain tissue, human prostate cancer tissue
Cited Applications: FC, IF, IHC, WB	
Species Specificity: human, mouse	
Cited Species: human, 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

CHRNA3, also named as NACHRA3, LNCR2 and PAOD2, is neuronal type nAChR subunits. It is a member of the nicotinic acetylcholine receptor family, which plays an important role in calcium regulation, neuronal development, and cognitive functions. Polymorphisms in this gene have been associated with an increased risk of smoking initiation and an increased susceptibility to lung cancer.

Notable Publications

Author	Pubmed ID	Journal	Application
Makoto Yamakawa	36507326	Front Neurosci	IF
Jing Wang	35513071	J Invest Dermatol	WB
Zhihua Sun	31963558	Mar Drugs	FC

Storage

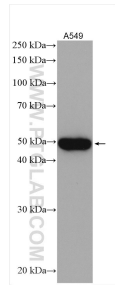
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

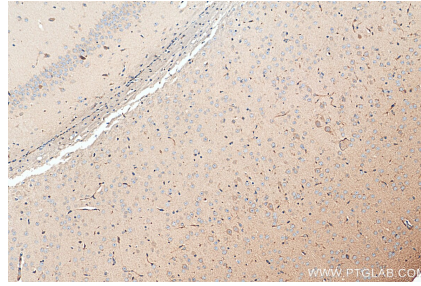
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

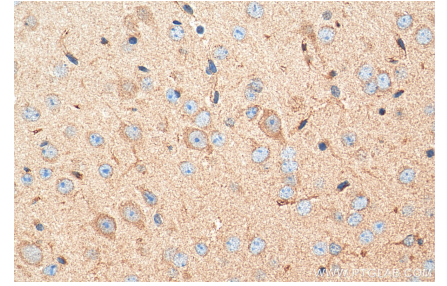
Selected Validation Data



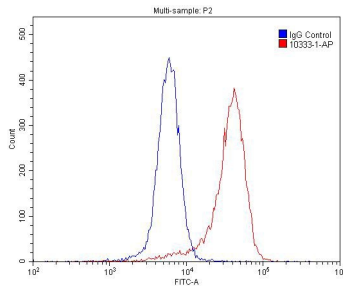
A549 cells were subjected to SDS PAGE followed by western blot with 10333-1-AP (CHRNA3 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10333-1-AP (CHRNA3 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10333-1-AP (CHRNA3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1x10⁶ SH-SY5Y cells were stained with 0.2ug CHRNA3 antibody (10333-1-AP, red) and control antibody (blue). Fixed with 4% PFA blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.