

For Research Use Only

# CHRNA3 Polyclonal antibody

Catalog Number: 10333-1-AP

Featured Product

6 Publications



## Basic Information

<b>Catalog Number:</b> 10333-1-AP	<b>GenBank Accession Number:</b> BC000513	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 500 µg/ml by Nanodrop and 100 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 1136	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:500-1:2000
<b>Source:</b> Rabbit	<b>Full Name:</b> cholinergic receptor, nicotinic, alpha 3	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 57 kDa	
<b>Immunogen Catalog Number:</b> AG0272	<b>Observed MW:</b> 50-55 kDa	

## Applications

### Tested Applications:

FC, IHC, WB, ELISA

### Cited Applications:

FC, IHC, WB

### Species Specificity:

human, mouse

### Cited Species:

human, mouse

### Positive Controls:

WB: mouse thymus tissue, A549 cells, HEK-293 cells, HepG2 cells, mouse brain tissue

IHC: mouse brain tissue, human prostate cancer 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

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
Jing Wang	35513071	J Invest Dermatol	WB
Zhihua Sun	31963558	Mar Drugs	FC
Azucena Perez-Burgos	24719355	FASEB J	IHC

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

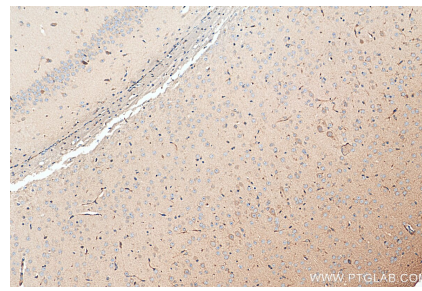
E: proteintech@ptglab.com  
W: ptglab.com

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

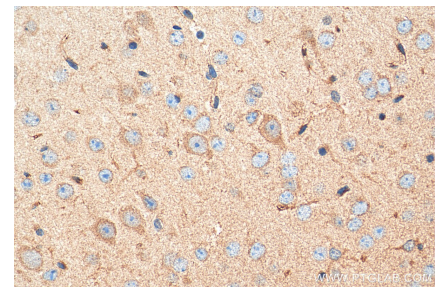
## Selected Validation Data



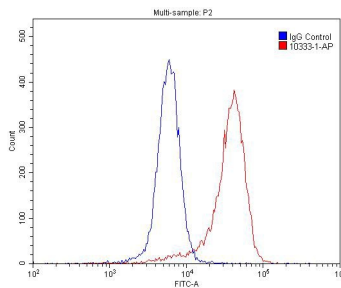
mouse thymus tissue were subjected to SDS PAGE followed by western blot with 10333-1-AP (CHRNA3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).



1X10<sup>6</sup> 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.