

For Research Use Only

CHRNA3 Polyclonal antibody

Catalog Number: 10333-1-AP

Featured Product

7 Publications



Basic Information

Catalog Number:

10333-1-AP

Size:

500 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0272

GenBank Accession Number:

BC000513

GeneID (NCBI):

1136

UNIPROT ID:

P32297

Full Name:

cholinergic receptor, nicotinic, alpha 3

Calculated MW:

57 kDa

Observed MW:

50-55 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:500-1:2000

Applications

Tested Applications:

FC, IHC, WB, ELISA

Cited Applications:

WB, IF, FC, IHC

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

Positive Controls:

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

IHC : mouse brain tissue, human prostate cancer tissue

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

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

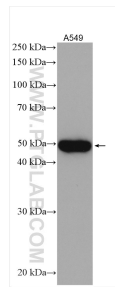
T: 4006900926

E: Proteintech-CN@ptglab.com

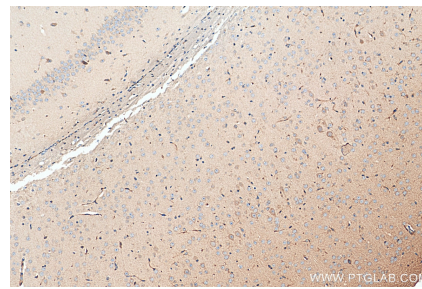
W: ptgcn.com

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

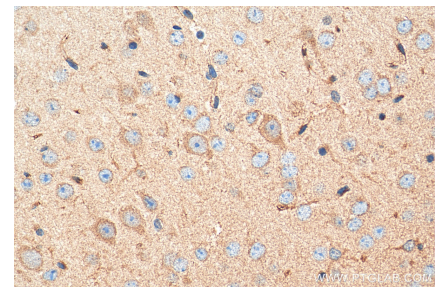
Selected Validation Data



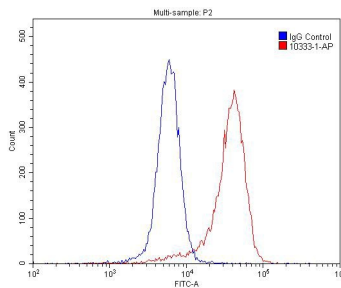
A549 cells were subjected to SDS PAGE followed by western blot with 10333-1-AP (CHRNA3 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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).



1×10^6 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.