

For Research Use Only

# CHRNB1 Polyclonal antibody

Catalog Number: 11553-1-AP **6 Publications**



## Basic Information

**Catalog Number:**

11553-1-AP

**Size:**

400 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG2108

**GenBank Accession Number:**

BC023553

**GeneID (NCBI):**

1140

**UNIPROT ID:**

P11230

**Full Name:**

cholinergic receptor, nicotinic, beta 1 (muscle)

**Calculated MW:**

501 aa, 57 kDa

**Observed MW:**

50-57 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

## Applications

**Tested Applications:**

IHC, IP, WB, ELISA

**Cited Applications:**

WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

mouse

**Positive Controls:**

WB: human liver tissue, mouse liver tissue

IP: mouse liver tissue,

IHC: human colon 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

Acetylcholine receptors (AChRs) are integral membrane proteins that respond to the binding of acetylcholine (ACh), a neurotransmitter synthesized, stored and finally released by cholinergic neurons. After binding acetylcholine, the AChR responds by an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane. The muscle acetylcholine receptor is composed of five subunits: two alpha subunits and one each of the beta, delta, and gamma (in immature muscle) or epsilon (in mature muscle) subunits. CHRNB1 gene encodes acetylcholine receptor subunit beta (ACHRB). Mutations in this gene are associated with slow-channel congenital myasthenic syndrome.

## Notable Publications

| Author     | Pubmed ID | Journal                | Application |
|------------|-----------|------------------------|-------------|
| Zhidan Qi  | 36381585  | Mol Ther Nucleic Acids | WB          |
| Yinrui Guo | 34045460  | Transl Psychiatry      | WB          |
| Xiao Wu    | 33795529  | Aging (Albany NY)      | 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

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

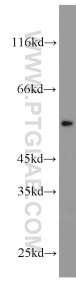
T: 4006900926

E: Proteintech-CN@ptglab.com

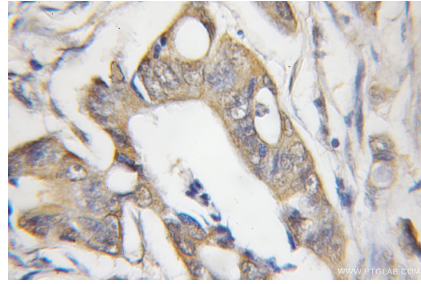
W: ptgcn.com

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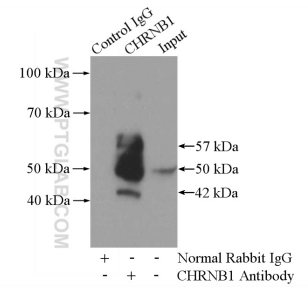
## Selected Validation Data



human liver tissue were subjected to SDS PAGE followed by western blot with 11553-1-AP (CHRNB1 antibody) at dilution of 1:300 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon cancer using 11553-1-AP (CHRNB1 antibody) at dilution of 1:50 (under 10x lens).



IP result of anti-CHRNB1 (IP:11553-1-AP, 4ug; Detection:11553-1-AP 1:300) with mouse liver tissue lysate 4000ug.