

For Research Use Only

# CHRNA7/CHRFAM7A Polyclonal antibody



Catalog Number: 21586-1-AP

Featured Product

## Basic Information

|   |   |  |
|---|---|--|
| <b>Catalog Number:</b><br>21586-1-AP  | <b>GenBank Accession Number:</b><br>BC101348  | <b>Purification Method:</b><br>Antigen affinity purification |
| <b>Size:</b><br>150ul, Concentration: 133 µg/ml by Bradford method using BSA as the standard; | <b>GeneID (NCBI):</b><br>89832  | <b>Recommended Dilutions:</b><br>WB 1:200-1:1000             |
| <b>Source:</b><br>Rabbit  | <b>Full Name:</b><br>CHRNA7 (cholinergic receptor, nicotinic, alpha 7, exons 5-10) and FAM7A (family with sequence similarity 7A, exons A-E) fusion |  |
| <b>Isotype:</b><br>IgG  | <b>Calculated MW:</b><br>412 aa, 46 kDa   |  |
| <b>Immunogen Catalog Number:</b><br>AG16151   | <b>Observed MW:</b><br>46 kDa   |  |

## Applications

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| <b>Tested Applications:</b><br>WB, ELISA | <b>Positive Controls:</b><br>WB: Jurkat cells, |
| <b>Species Specificity:</b><br>human     |  |

## Background Information

Neuronal acetylcholine receptor subunit alpha-7, encoded by the CHRNA7 gene, is involved in cognition through interneuron modulation of 4-(2-aminoethyl)benzene-1,2-diol and glutamate signaling. CHRNA7 gene is genetically linked to multiple disorders with cognitive deficits. A partial duplication of CHRNA7 (CHRFAM7A) is found in humans. CHRFAM7A gene encodes the CHRNA7-FAM7A fusion protein. Expression of CHRFAM7A has been reported in brain, peripheral blood lymphocytes (PBLs), and a broad range of epithelial cells (PMID: 21718690; 23553139; 25681457). CHRFAM7A has been associated with many neuropsychiatric disorders (PMID: 25906356; 25701707). This antibody, raised against 241-386 amino acids of human CHRFAM7A protein, recognizes both CHRNA7 and CHRFAM7A.

## Storage

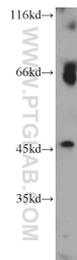
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

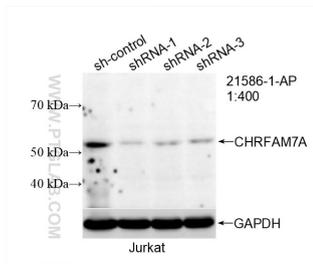
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

## Selected Validation Data



Jurkat cells were subjected to SDS PAGE followed by western blot with 21586-1-AP (CHRNA7/CHRFAM7A antibody) at dilution of 1:200 incubated at room temperature for 1.5 hours.



WB result of CHRNA7/CHRFAM7A antibody (21586-1-AP; 1:400; incubated at room temperature for 1.5 hours) with sh-Control and sh-CHRNA7/CHRFAM7A transfected Jurkat cells.