

**Anti-CHRNA5 Picoband Antibody**  
Catalog # ABO10244**Specification****Anti-CHRNA5 Picoband Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | WB, IHC                |
| Primary Accession | <a href="#">P30532</a> |
| Host              | Rabbit                 |
| Reactivity        | Human, Mouse, Rat      |
| Clonality         | Polyclonal             |
| Format            | Lyophilized            |

**Description**

Rabbit IgG polyclonal antibody for Neuronal acetylcholine receptor subunit alpha-5(CHRNA5) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-CHRNA5 Picoband Antibody - Additional Information**

**Gene ID** 1138

**Other Names**

Neuronal acetylcholine receptor subunit alpha-5, CHRNA5, NACHRA5

**Calculated MW**

53054 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat  
Western blot, 0.1-0.5 µg/ml, Human, Rat

**Subcellular Localization**

Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein.

**Protein Name**

Neuronal acetylcholine receptor subunit alpha-5

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg Na<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminus of human CHRNA5 (44-76aa AKHEDSLLKDLFQDYERWVRPVEHLNDKIKIKF), different from the related mouse sequence by five amino acids, and from the related rat sequence by four amino acids.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

**Anti-CHRNA5 Picoband Antibody - Protein Information**

**Name** CHRNA5

**Synonyms** NACHRA5

**Function**

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.

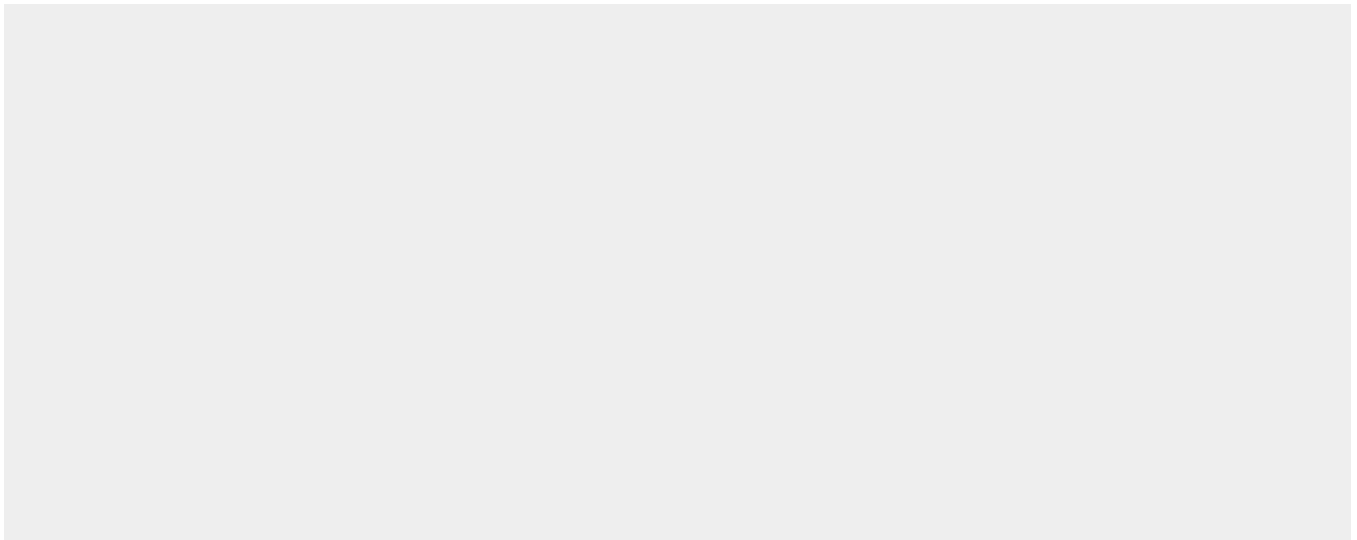
**Cellular Location**

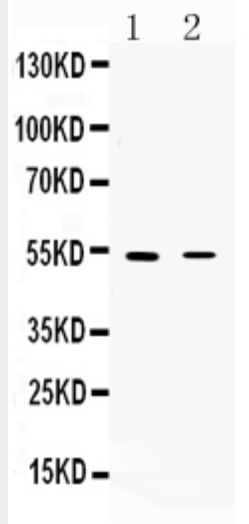
Postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein

**Anti-CHRNA5 Picoband Antibody - Protocols**

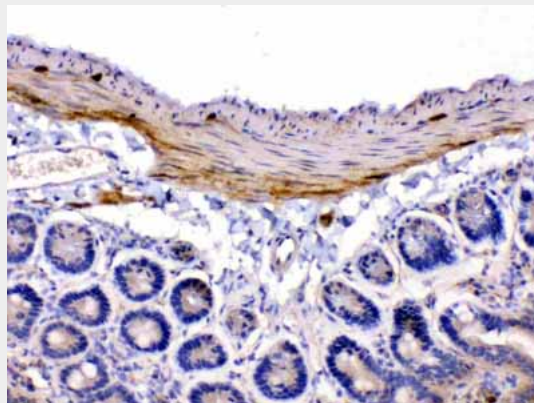
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

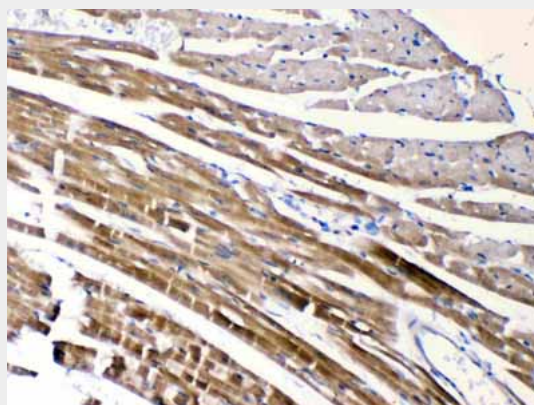
**Anti-CHRNA5 Picoband Antibody - Images**



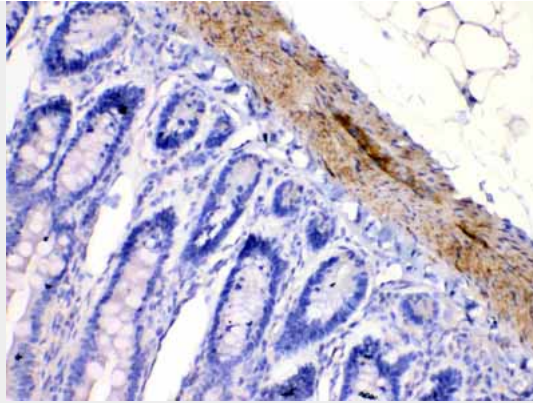
Western blot analysis of CHRNA5 expression in rat skeletal muscle extract (lane 1) and HEPG2 whole cell lysates (lane 2). CHRNA5 at 53KD was detected using rabbit anti- CHRNA5 Antigen Affinity purified polyclonal antibody (Catalog #ABO10244) at 0.5  $\mu$ g/mL. The blot was developed using chemiluminescence (ECL) method .



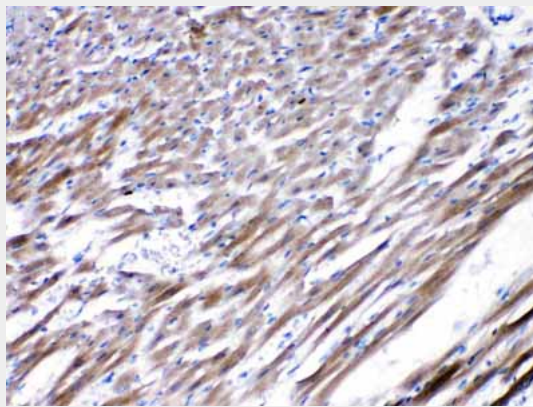
CHRNA5 was detected in paraffin-embedded sections of mouse intestine tissues using rabbit anti-CHRNA5 Antigen Affinity purified polyclonal antibody (Catalog # ABO10244) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .



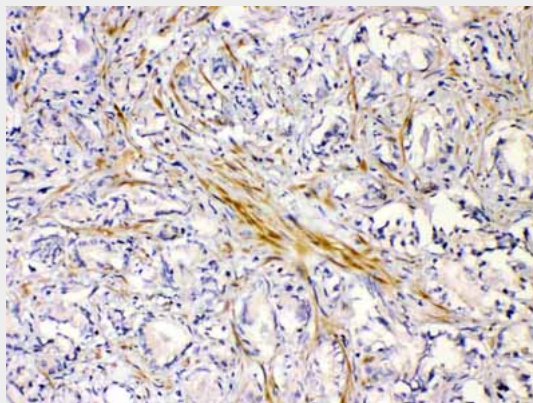
CHRNA5 was detected in paraffin-embedded sections of mouse cardiac muscle tissues using rabbit anti- CHRNA5 Antigen Affinity purified polyclonal antibody (Catalog # ABO10244) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .



CHRNA5 was detected in paraffin-embedded sections of rat intestine tissues using rabbit anti-CHRNA5 Antigen Affinity purified polyclonal antibody (Catalog # ABO10244) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .



CHRNA5 was detected in paraffin-embedded sections of rat cardiac muscle tissues using rabbit anti- CHRNA5 Antigen Affinity purified polyclonal antibody (Catalog # ABO10244) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .



CHRNA5 was detected in paraffin-embedded sections of human prostatic cancer tissues using rabbit anti- CHRNA5 Antigen Affinity purified polyclonal antibody (Catalog # ABO10244) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .

#### **Anti-CHRNA5 Picoband Antibody - Background**

Neuronal acetylcholine receptor subunit alpha-5 is a protein that in humans is encoded by the CHRNA5 gene. It is mapped to 15q25.1. The protein encoded by this gene is a nicotinic acetylcholine receptor subunit and a member of a superfamily of ligand-gated ion channels that mediate fast signal transmission at synapses. These receptors are thought to be heteropentamers

composed of separate but similar subunits. Defects in this gene have been linked to susceptibility to lung cancer type 2 (LNCR2).