

Datasheet for ABIN7258754
anti-CHRNA7 antibody



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2 Images

Overview

| | |
|--------------|---------------------------------------|
| Quantity: | 200 µL |
| Target: | CHRNA7 |
| Reactivity: | Human, Rat, Mouse |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This CHRNA7 antibody is un-conjugated |
| Application: | Immunohistochemistry (IHC) |

Product Details

| | |
|------------------|--|
| Immunogen: | Recombinant fusion protein of human CHRNA7 (NP_001177384.1). |
| Isotype: | IgG |
| Characteristics: | Polyclonal Antibody |
| Purification: | Affinity purification |

Target Details

| | |
|-------------------|---|
| Target: | CHRNA7 |
| Alternative Name: | CHRNA7 (CHRNA7 Products) |
| Background: | The nicotinic acetylcholine receptors (nAChRs) are members of a superfamily of ligand-gated ion channels that mediate fast signal transmission at synapses. The nAChRs are thought to be hetero-pentamers composed of homologous subunits. The proposed structure for each subunit is a conserved N-terminal extracellular domain followed by three conserved |

Target Details

transmembrane domains, a variable cytoplasmic loop, a fourth conserved transmembrane domain, and a short C-terminal extracellular region. The protein encoded by this gene forms a homo-oligomeric channel, displays marked permeability to calcium ions and is a major component of brain nicotinic receptors that are blocked by, and highly sensitive to, alpha-bungarotoxin. Once this receptor binds acetylcholine, it undergoes an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane. This gene is located in a region identified as a major susceptibility locus for juvenile myoclonic epilepsy and a chromosomal location involved in the genetic transmission of schizophrenia. An evolutionarily recent partial duplication event in this region results in a hybrid containing sequence from this gene and a novel FAM7A gene. Alternative splicing results in multiple transcript variants.

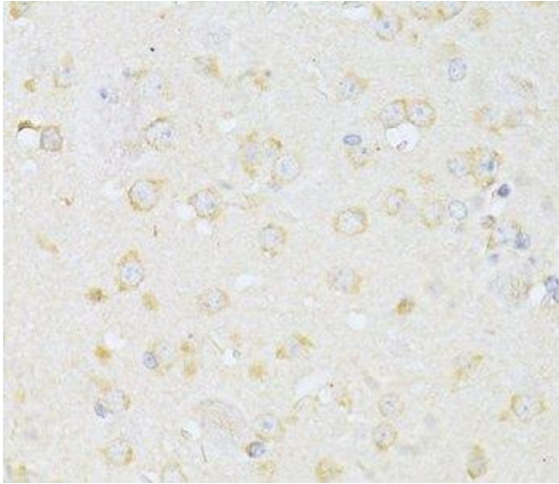
| | |
|-----------|-----------------------------------|
| Gene ID: | 1139 |
| UniProt: | P36544 |
| Pathways: | Synaptic Membrane |

Application Details

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|--------------------|-----------------------|
| Application Notes: | IHC 1:50-1:200 |
| Restrictions: | For Research Use only |

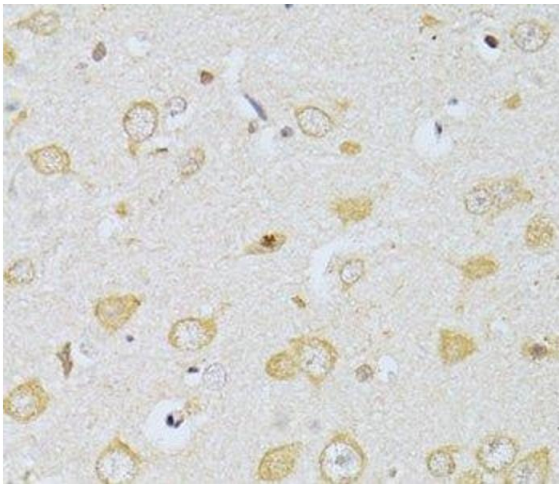
Handling

| | |
|--------------------|--|
| Format: | Liquid |
| Concentration: | 1 mg/mL |
| Buffer: | PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3 |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C |
| Storage Comment: | Store at -20°C. Avoid freeze / thaw cycles. |



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of paraffin-embedded Mouse brain using CHRNA7 Polyclonal Antibody at dilution of 1:100 (40x lens).



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Immunohistochemistry of paraffin-embedded Rat brain using CHRNA7 Polyclonal Antibody at dilution of 1:100 (40x lens).