

Datasheet for ABIN657819
anti-CHRNA7 antibody (N-Term)

1 Image

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Overview

Quantity:	400 µL
Target:	CHRNA7
Binding Specificity:	AA 8-37, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Immunogen:	This CHRNA7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 8-37 amino acids from the N-terminal region of human CHRNA7.
Clone:	RB34036
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide 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

Target Details

subunit is a conserved N-terminal extracellular domain followed by three conserved 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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Molecular Weight:	56449
Gene ID:	1139
NCBI Accession:	NP_000737 , NP_001177384 , NP_683709
UniProt:	P36544
Pathways:	Synaptic Membrane

Application Details

Application Notes:	WB: 1:1000
Restrictions:	For Research Use only

Handling

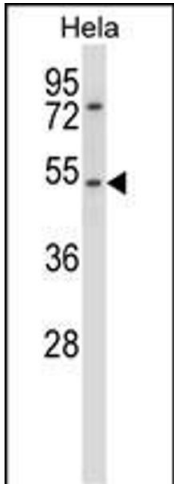
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	CHRNA7 Antibody (N-term) can be refrigerated at 2-8 °C for up to 6 months. For long term

Handling

storage, place the at -20 °C.

Expiry Date: 6 months

Images



Western Blotting

Image 1. CHRNA7 Antibody (N-term) (ABIN657819 and ABIN2846786) western blot analysis in Hela cell line lysates (35 µg/lane). This demonstrates the CHRNA7 antibody detected the CHRNA7 protein (arrow).