Datasheet for ABIN2792250

anti-CHRNA7 antibody (N-Term)

4 Images

Go to Product page

Overview

Quantity:	100 µL
Target:	CHRNA7
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse, Cow
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CHRNA7 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human CHRNA7
Sequence:	QGEFQRKLYK ELVKNYNPLE RPVANDSQPL TVYFSLSLLQ IMDVDEKNQV
Predicted Reactivity:	Cow: 93%, Human: 100%, Mouse: 100%, Rat: 100%
Characteristics:	This is a rabbit polyclonal antibody against CHRNA7. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Protein A purified

Target Details

Target:	CHRNA7

Target Details

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 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. CHRNA7 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 CHRNA7 and a novel FAM7A gene. Alias Symbols: NACHRA7, CHRNA7-2 Protein Interaction Partner: ATXN1, ADCY6, PIK3R1, APP, FYN, Protein Size: 502
Molecular Weight:	56 kDa
Gene ID:	1139
NCBI Accession:	NM_000746, NP_000737
UniProt:	P36544
Pathways:	Synaptic Membrane

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 502 AA
Restrictions:	For Research Use only

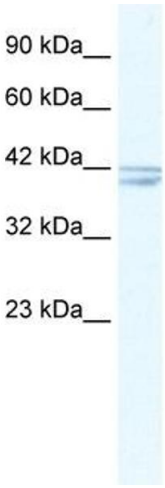
Handling

Format:	Liquid
Concentration:	Lot specific

Handling

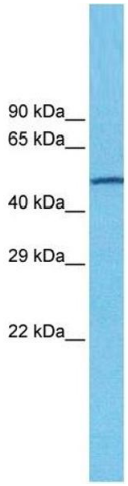
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



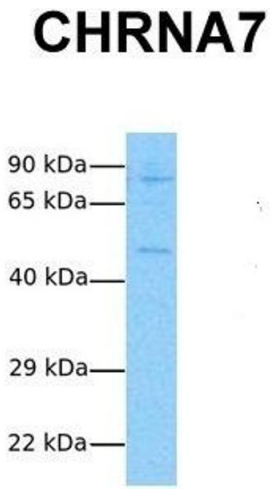
Western Blotting

Image 1. WB Suggested Anti-CHRNA7 Antibody Titration: 2.5ug/ml Positive Control: HepG2 cell lysate



Western Blotting

Image 2. Host: Rabbit Target Name: CHRNA7 Sample Type: MDA-MB-435S Cell lysates Antibody Dilution: 1.0ug/ml



Western Blotting

Image 3. Host: Rabbit Target Name: CHRNA7 Sample Tissue: Human Jurkat Antibody Dilution: 1.0ug/ml

Please check the product details page for more images. Overall 4 images are available for ABIN2792250.