# antibodies - online.com







## anti-CHRNA7 antibody (AA 52-259)



### **Images**



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Quantity:	0.1 mg
Target:	CHRNA7
Binding Specificity:	AA 52-259
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS), Immunocytochemistry (ICC), Neutralization (Neut)

#### **Product Details**

Immunogen:	Purified recombinant fragment of human CHRNA7 (AA: extra 52-259) expressed in E. coli.
Clone:	7F10F1
Isotype:	lgG1
Purification:	purified

#### **Target Details**

Target:	CHRNA7
Alternative Name:	CHRNA7 (CHRNA7 Products)
Background:	Description: 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, alphabungarotoxin. 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.

Aliases: NACHRA7, CHRNA7-2

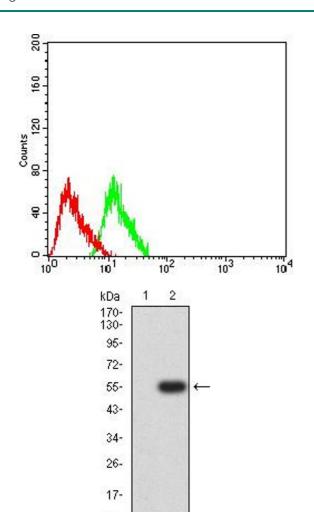
Molecular Weight:	56.4 kDa
Gene ID:	1139
HGNC:	1139
Pathways:	Synaptic Membrane

#### **Application Details**

Application Notes:	ELISA: 1:10000, WB: 1:500 - 1:2000, ICC: N/A, FCM: 1:200 - 1:400, IHC: N/A
Restrictions:	For Research Use only

#### Handling

Format:	Liquid
Buffer:	Purified antibody in PBS with 0.05 % 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:	4°C, -20°C for long term storage

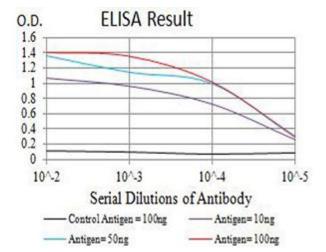


#### **Flow Cytometry**

**Image 1.** Flow cytometric analysis of SH-SY5Y cells using CHRNA7 mouse mAb (green) and negative control (red).

#### **Western Blotting**

**Image 2.** Western blot analysis using CHRNA7 mAb against HEK293 (1) and CHRNA7 (AA: extra 52-259)-hlgGFc transfected HEK293 (2) cell lysate.



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#### **ELISA**

**Image 3.** Black line: Control Antigen (100 ng), Purple line: Antigen (10 ng), Blue line: Antigen (50 ng), Red line: Antigen (100 ng)

Please check the product details page for more images. Overall 5 images are available for ABIN5611362.