

## Mouse Monoclonal Antibody to CHRNA2

<b>Catalogue Number</b>	sAP-1599
<b>Target Molecule</b>	<p><b>Name: CHRNA2</b></p> <p><b>Aliases:</b></p> <p><b>MW: 60kDa</b></p> <p><b>Entrez Gene ID: 1135</b></p>
<b>Description</b>	Nicotinic acetylcholine receptors (nAChRs) are ligand-gated ion channels formed by a pentameric arrangement of alpha and beta subunits to create distinct muscle and neuronal receptors. Neuronal receptors are found throughout the peripheral and central nervous system where they are involved in fast synaptic transmission. This gene encodes an alpha subunit that is widely expressed in the brain. The proposed structure for nAChR subunits 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. Mutations in this gene cause autosomal dominant nocturnal frontal lobe epilepsy type 4. Single nucleotide polymorphisms (SNPs) in this gene have been associated with nicotine
<b>Immunogen</b>	Purified recombinant fragment of human CHRNA2 (AA: extra 27-264) expressed in E. Coli.
<b>Reactive Species</b>	Human;
<b>Clone</b>	MM7G12D10
<b>Size and Concentration</b>	100µg/1mg/ml
<b>Supplied as</b>	Lyophilized Powder from 100µl of Purified antibody in PBS with 0.05% sodium azide
<b>Reconstitution/Storages</b>	Reconstituted with 100µl sterile DI H <sub>2</sub> O, at stored at 4°C or -20°C for short or long term storage
<b>Applications</b>	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; ICC: N to A; FCM: N to A; IHC: N to A
<b>Shipping</b>	Regular FEDEX overnight shipment (ambient temperature)
<b>Reference</b>	1.Hum Genet. 2014 May;133(5):575-86. 2.Epilepsia. 2015 May;56(5):e53-7.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**