

## Mouse Monoclonal Antibody to CHRNA7

<b>Catalogue Number</b>	sAP-1588
<b>Target Molecule</b>	<p><b>Name:</b> CHRNA7</p> <p><b>Aliases:</b> NACHRA7; CHRNA7-2</p> <p><b>MW:</b> 56.4kDa</p> <p><b>Entrez Gene ID:</b> 1139</p>
<b>Description</b>	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
<b>Immunogen</b>	Purified recombinant fragment of human CHRNA7 (AA: extra 52-259) expressed in E. Coli.
<b>Reactive Species</b>	Human;Rat;
<b>Clone</b>	MM7F10F1
<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: 1 to 200 - 1 to 400; IHC: N to A
<b>Shipping</b>	Regular FEDEX overnight shipment (ambient temperature)
<b>Reference</b>	1.Neuromolecular Med. 2015 Dec;17(4):423-30. 2.Eur J Hum Genet. 2015 Aug;23(8):1019-24.

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**