

CHRNA2

Purified Mouse Monoclonal Antibody

Catalog # AO2596a

Product Information

Application	WB, IHC, ICC, E
Primary Accession	Q15822
Reactivity	Human, Rat
Host	Mouse
Clonality	Monoclonal
Clone Names	7G12H9
Isotype	Mouse IgG1
Calculated MW	59765
Immunogen	Purified recombinant fragment of human CHRNA2 (AA: extra 27-264) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	1135
Other Names	Neuronal acetylcholine receptor subunit alpha-2, CHRNA2
Dilution	WB~~ 1/500 - 1/2000 IHC~~1:100~500 ICC~~N/A E~~ 1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CHRNA2 is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CHRNA2 (HGNC:1956)
Function	Component of neuronal acetylcholine receptors (nAChRs) that function as pentameric, ligand-gated cation channels with high calcium permeability among other activities. nAChRs are excitatory neurotransmitter receptors formed by a collection of nAChR subunits known to mediate synaptic transmission in the nervous system and the neuromuscular junction. Each nAChR subunit confers differential attributes to channel properties, including activation, deactivation and desensitization kinetics, pH sensitivity, cation permeability, and binding to allosteric modulators (PubMed: 18723036). CHRNA2 forms heteropentameric neuronal acetylcholine receptors with

CHRNA2 and CHRNA4 and plays a role in nicotine dependence (PubMed:[24467848](#), PubMed:[27493220](#)).

Cellular Location

Synaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein

References

1.Hum Genet. 2014 May;133(5):575-86. 2.Epilepsia. 2015 May;56(5):e53-7.

Images

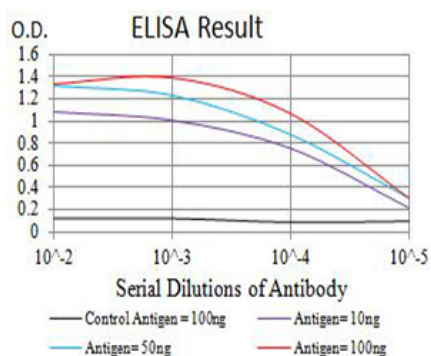


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

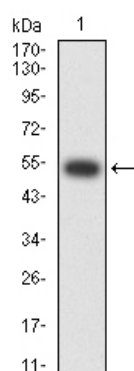


Figure 2:Western blot analysis using CHRNA2 mAb against human CHRNA2 (AA: extra 27-264) recombinant protein. (Expected MW is 53.3 kDa)

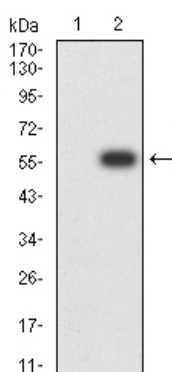
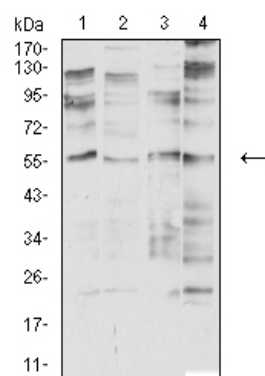


Figure 3:Western blot analysis using CHRNA2 mAb against HEK293 (1) and CHRNA2 (AA: extra 27-264)-hIgGfC transfected HEK293 (2) cell lysate.

Figure 4:Western blot analysis using CHRNA2 mouse mAb against SK-N-SH (1), SH-SY5Y (2), membrane protein of C6 (3), and SW480 (4) cell lysate.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.