

CHRNA6
Purified Mouse Monoclonal Antibody
Catalog # AO2555a**Specification****CHRNA6 - Product Information**

Application	WB, IHC, ICC, E
Primary Accession	Q15825
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	57kDa KDa

Immunogen

Purified recombinant fragment of human CHRNA6 (AA: 26-239) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

CHRNA6 - Additional Information**Gene ID 8973****Other Names**

CHNRA6

Dilution

WB~~ 1/500 - 1/2000
IHC~~1:100~500
ICC~~ 1/100 - 1/500
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

CHRNA6 is for research use only and not for use in diagnostic or therapeutic procedures.

CHRNA6 - Protein Information**Name** CHRNA6 ([HGNC:15963](#))**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 (Probable). CHRNB1 forms pentameric channels with CHRNB2, CHRNB3 and CHRNB4 that exhibit high sensitivity to ACh and nicotine and are predominantly expressed in only a few brain areas, including dopaminergic neurons, norepinephrine neurons and cells of the visual system (PubMed:16835356). nAChRs containing CHRNB1 subunits mediate endogenous cholinergic modulation of dopamine and gamma-aminobutyric acid (GABA) release in response to nicotine at nerve terminals.

Cellular Location

Synaptic cell membrane {ECO:0000250|UniProtKB:Q9R0W9}; Multi-pass membrane protein

CHRNB1 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CHRNB1 - Images

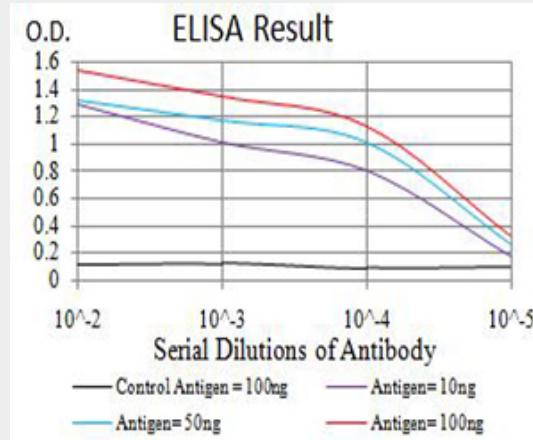


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

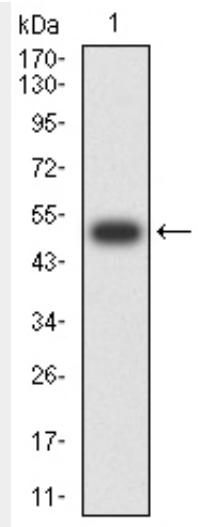


Figure 2:Western blot analysis using CHRNA6 mAb against human CHRNA6 (AA: 26-239) recombinant protein. (Expected MW is 51.2 kDa)

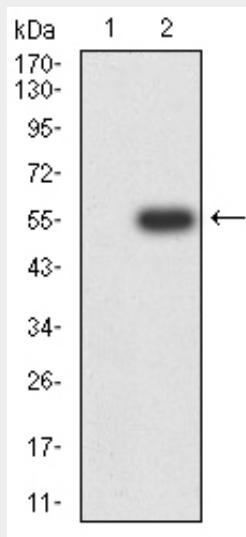


Figure 3:Western blot analysis using CHRNA6 mAb against HEK293 (1) and CHRNA6 (AA: 26-239)-hIgFc transfected HEK293 (2) cell lysate.

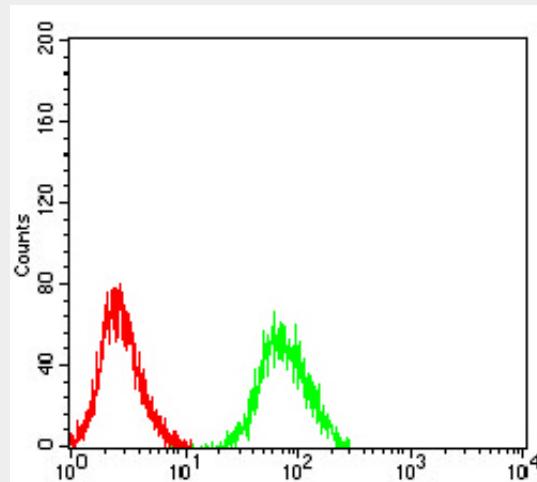


Figure 5:Flow cytometric analysis of SH-SY5Y cells using CHRNA6 mouse mAb (green) and

negative control (red).

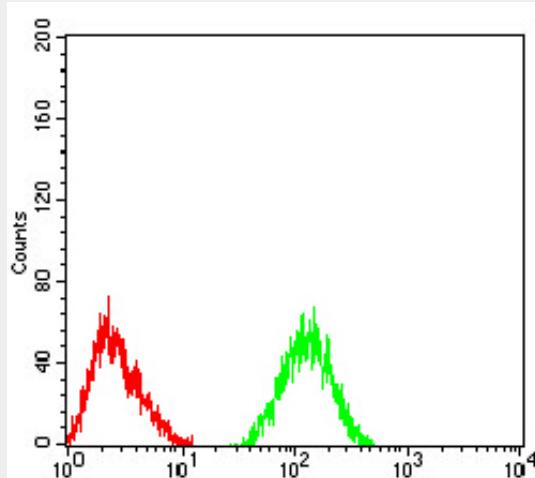


Figure 6:Flow cytometric analysis of SK-N-SH cells using CHRNA6 mouse mAb (green) and negative control (red).

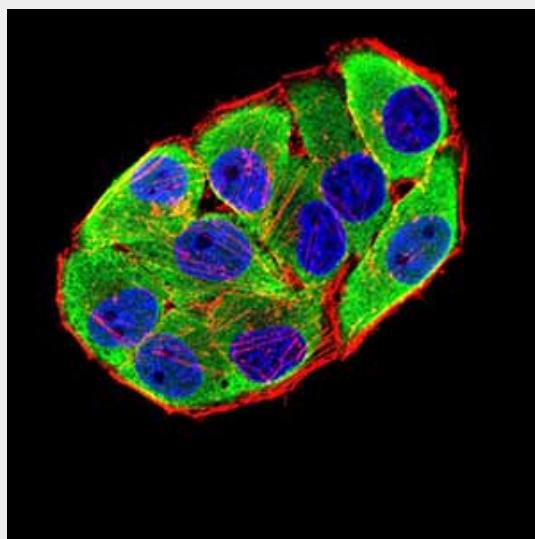


Figure 4:Immunofluorescence analysis of HeLa cells using CHRNA6 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

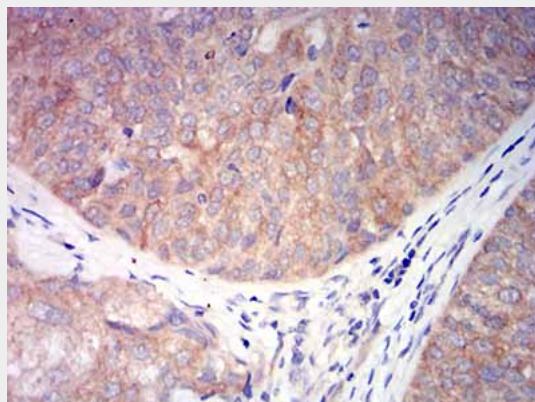


Figure 7:Immunohistochemical analysis of paraffin-embedded bladder cancer tissues using CHRNA6 mouse mAb with DAB staining.

CHRNA6 - References

1.Mol Brain. 2014 May 2;7:35. 2.Mol Psychiatry. 2010 Jan;15(1):6-8.