

Product Name: CHRNA7 Mouse Monoclonal Antibody

Catalog #: AMM81900

For research use only.

Summary

Description Mouse monoclonal Antibody

Host Mouse

Application IHC,ELISA,FC

Reactivity Human, Mouse, Rat, Rabbit

ConjugationUnconjugatedModificationUnmodifiedIsotypeMouse IgG1ClonalityMonoclonalFormLiquid

Concentration Liquid

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Buffer Purified antibody in PBS with 0.05% sodium azide

Purification Affinity Purification

Application

Dilution Ratio IHC 1:100-1:500,ELISA 1:5000-1:20000,FC 1:200-1:400

Molecular Weight 56.4kDa

Antigen Information

Gene Name CHRNA7

Alternative Names NACHRA7; CHRNA7-2

Gene ID 1139.0 **SwissProt ID** P36544

Immunogen Purified recombinant fragment of human CHRNA7 (AA: extra 52-259) expressed in E. Coli.

Background

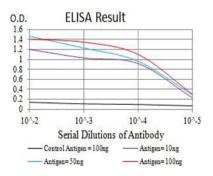
The nicotinic acetylcholine receptors (nAChRs) are members of a superfamily of ligand-gated ion channels that mediate fast signal transmission at synapses. The nAChRs are thought to be hetero-pentamers composed of homologous subunits. The proposed structure for each subunit is a conserved N-terminal extracellular domain followed by three conserved



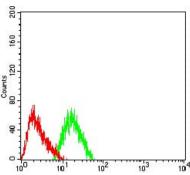
transmembrane domains, a variable cytoplasmic loop, a fourth conserved transmembrane domain, and a short C-terminal extracellular region. The protein encoded by this gene forms a homo-oligomeric channel, displays marked permeability to calcium ions and is a major component of brain nicotinic receptors 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.

Research Area

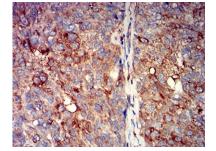
Image Data



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



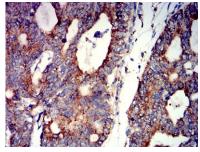
Flow cytometric analysis of SH-SY5Y cells using CHRNA7 mouse mAb (green) and negative control (red).



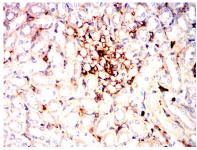
Immunohistochemical analysis of paraffin-embedded human bladder cancer tissues using CHRNA7 mouse mAb with DAB staining.

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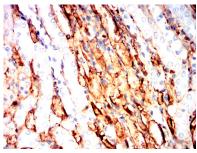




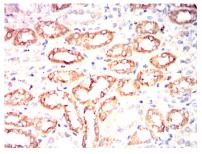
Immunohistochemical analysis of paraffin-embedded human rectum cancer tissues using CHRNA7 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Mouse kidney using CHRNA7 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Rat kidney using CHRNA7 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded Rabbit kidney using CHRNA7 mouse mAb with DAB staining.

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