Data Sheet (Cat.No.TMAC-00854)

Anti-CHRNA7 Antibody (5X667)

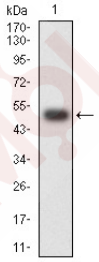
Product Details

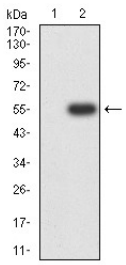
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 56 kDa.
Clone:	5X667
Purification:	ProA affinity purified

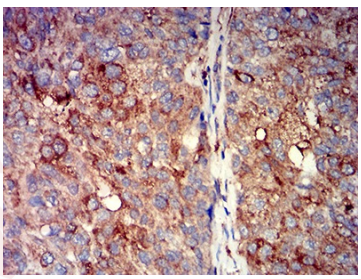
Applications

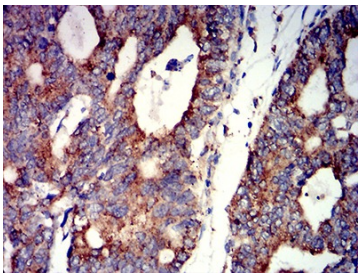
Verified Activity:

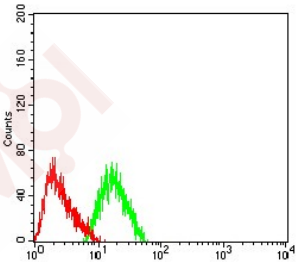
1. Western blot analysis of CHRNA7 on human CHRNA7 recombinant protein using anti-CHRNA7 antibody at 1/1,000 dilution.
2. Western blot analysis of CHRNA7 on HEK293 (1) and CHRNA7-hIgGFc transfected HEK293 (2) cell lysate using anti-CHRNA7 antibody at 1/1,000 dilution.
3. Immunohistochemical analysis of paraffin-embedded human bladder cancer tissue using anti-CHRNA7 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human rectum cancer tissue using anti-CHRNA7 antibody. Counter stained with hematoxylin.
5. Flow cytometric analysis of SH-SY5Y cells with CHRNA7 antibody at 1/100 dilution (green) compared with an unlabelled control (cells without incubation with primary antibody; red).











Application: FCM,IHC,WB

Recommended: WB: 1:500-2000; IHC: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P36544

Synonyms: cholinergic receptor, nicotinic, alpha 7 (neuronal);CHRNA 7;alpha7;a7 nicotinic acetylcholine receptor;alpha-7 nicotinic cholinergic receptor subunit;Neuronal acetylcholine receptor subunit alpha-7;alpha 7 neuronal nicotinic acetylcholine receptor;CHRNA7-2;cholinergic receptor, nicotinic, alpha polypeptide 7;AChR;neuronal acetylcholine receptor protein, alpha-7 chain; acetylcholine receptor, neuronal nicotinic, alpha-7 subunit;NACHRA7;ACHA7_HUMAN;Acra7; cholinergic receptor, neuronal nicotinic, alpha polypeptide 7;7nAChR;cholinergic receptor, nicotinic, alpha 7

Research Background

Members of the ligand-gated ion channel receptor family are characterized by their fast transmitting response to neurotransmitters. Two important members of this family are the nicotinic acetylcholine and glutamate receptors, both of which are composed of five homologous subunits forming a transmembrane aqueous pore. These transmembrane receptors change conformation in response to their cognate neurotransmitter. Nicotinic acetylcholine receptors (AChRs) are found at the postsynaptic membrane of the neuromuscular junction and bind acetylcholine molecules, allowing ions to move through the pore. Glutamate receptors are found in the postsynaptic membrane of cells in the central nervous system. The activity that is generated at the synapse by the binding of acetylcholine is terminated by acetylcholinesterase, an enzyme that rapidly hydrolyzes acetylcholine. AChRα7, also known as NACHRA7, CHRNA7-2 or CHRNA7, is a 502 amino acid multi-pass membrane protein existing as a homopentamer and interacts with RIC-3, a nicotinic acetylcholine receptor (nAChR)-associated protein.

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