Product Datasheet

CHRNA7 Antibody

Catalog No: #48396

Package Size: #48396-1 50ul #48396-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

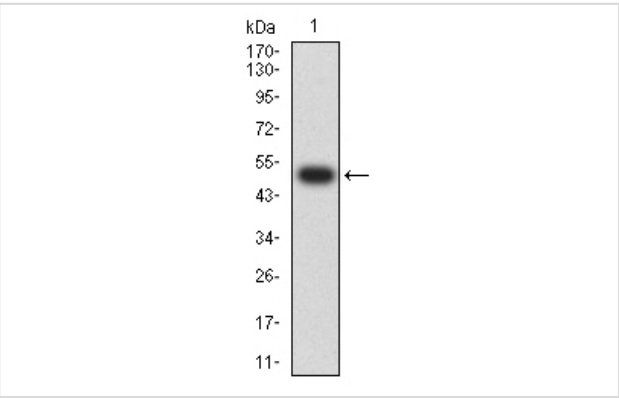
Description

Product Name	CHRNA7 Antibody
Host Species	Mouse
Clonality	Monoclonal
Clone No.	G1-F10
Purification	ProA affinity purified
Applications	WB, IHC, FC
Species Reactivity	Hu
Immunogen Description	Recombinant protein
Other Names	7nAChR antibody a7 nicotinic acetylcholine receptor antibody acetylcholine receptor, neuronal nicotinic, alpha-7 subunit antibody ACHA7_HUMAN antibody AChR antibody Acra7 antibody alpha 7 neuronal nicotinic acetylcholine receptor antibody alpha-7 nicotinic cholinergic receptor subunit antibody alpha7 antibody cholinergic receptor, neuronal nicotinic, alpha polypeptide 7 antibody cholinergic receptor, nicotinic, alpha 7 (neuronal) antibody cholinergic receptor, nicotinic, alpha 7 antibody cholinergic receptor, nicotinic, alpha polypeptide 7 antibody CHRNA7 antibody CHRNA7-2 antibody NACHRA7 antibody neuronal acetylcholine receptor protein, alpha-7 chain antibody Neuronal acetylcholine receptor subunit alpha-7 antibody
Accession No.	Swiss-Prot#:P36544
Uniprot	P36544
GeneID	1139;89832;
Calculated MW	56 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

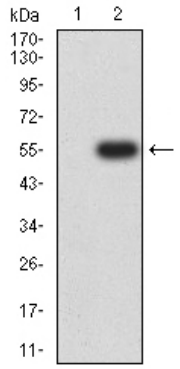
Application Details

WB: 1:500-1:2,000IHC: 1:50-1:200 FC: 1:50-1:100

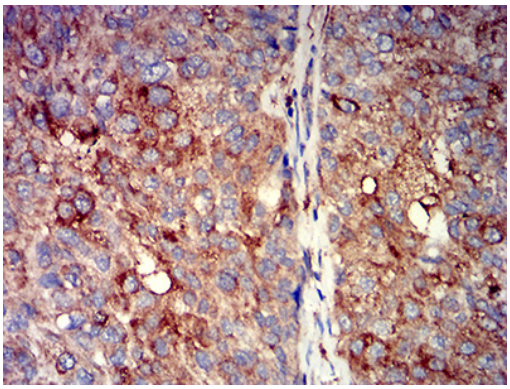
Images



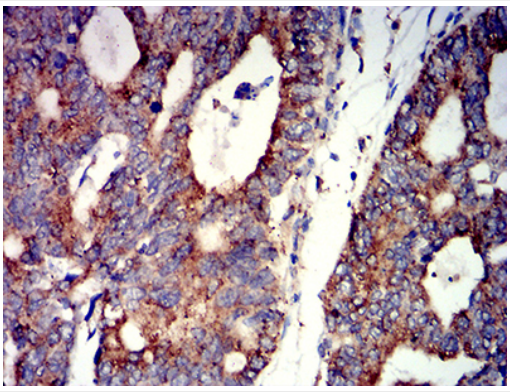
Western blot analysis of CHRNA7 on human CHRNA7 recombinant protein using anti-CHRNA7 antibody at 1/1,000 dilution.



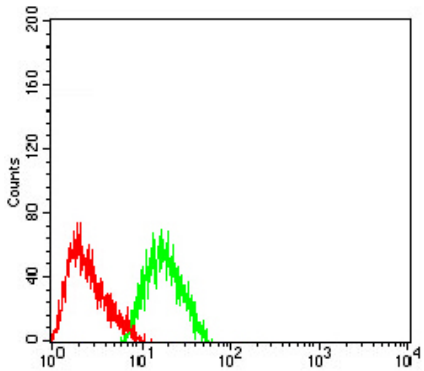
Western blot analysis of CHRNA7 on HEK293 (1) and CHRNA7-hIgGFc transfected HEK293 (2) cell lysate using anti-CHRNA7 antibody at 1/1,000 dilution.



Immunohistochemical analysis of paraffin-embedded human bladder cancer tissue using anti-CHRNA7 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human rectum cancer tissue using anti-CHRNA7 antibody. Counter stained with hematoxylin.



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).

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.

References

Note: This product is for in vitro research use only