



Rabbit Anti-CHRNA3 antibody

SL6455R

Product Name:	CHRNA3
Chinese Name:	烟碱型乙酰胆碱受体 α 3抗体
Alias:	Nicotinic Acetylcholine Receptor alpha 3; ACHA3_HUMAN; Cholinergic receptor neuronal nicotinic alpha polypeptide 3; Cholinergic receptor nicotinic alpha 3; Cholinergic receptor nicotinic alpha polypeptide 3; CHRNA 3; CHRNA3; CHRNA-3; NACHRA 3; NACHRA3; Neuronal acetylcholine receptor protein alpha 3 chain precursor; Neuronal acetylcholine receptor subunit alpha 3; Neuronal acetylcholine receptor subunit alpha-3; Neuronal nicotinic acetylcholine receptor alpha 3 subunit.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:50-200 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	54kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CHRNA3/AChR α 3:101-200/505
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 癆 for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20癆. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 癆.
PubMed:	PubMed

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. AChR α , also known as LNCR2, PAOD2, NACHRA3 or CHRNA3, is a 505 amino acid multi-pass membrane protein that belongs to the ligand-gated ion channel receptor family and may play a role in neurotransmission.

Function:

After binding acetylcholine, the AChR responds by an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane.

Subunit:

Neuronal AChR is composed of two different types of subunits: alpha and beta. Alpha-3 subunit can be combined to beta-2 or beta-4 to give rise to functional receptors. Interacts with RIC3; which is required for proper folding and assembly.

Subcellular Location:

Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein.

Similarity:

Belongs to the ligand-gated ion channel (TC 1.A.9) family. Acetylcholine receptor (TC 1.A.9.1) subfamily. Alpha-3/CHRNA3 sub-subfamily.

SWISS:

P32297

Gene ID:

1136

Database links:

[Entrez Gene: 1136](#) Human

[Entrez Gene: 110834](#) Mouse

[Entrez Gene: 25101](#) Rat

Product Detail:

[Oimim: 118503](#) Human

[SwissProt: P32297](#) Human

[SwissProt: Q8R4G9](#) Mouse

[SwissProt: P04757](#) Rat

[Unigene: 89605](#) Human

[Unigene: 63569](#) Mouse

[Unigene: 10996](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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