

Rabbit Anti-CHRNA4 antibody

SL1038R

Product Name CHRNA4

Chinese Name 烟碱型乙酰胆碱受体 $\alpha 4$ 抗体

Cholinergic receptor nicotinic alpha 4; Cholinergic receptor nicotinic alpha polypeptide 4; Cholinergic receptor nicotinic alpha polypeptide 4; cholinergic receptor, nicotinic, alpha 4; cholinergic receptor, nicotinic, alpha 4 subunit precursor; ACRA4; ALPHA-4NACHR; ALPHA4 ACHR; BFNC; CHRNA4; CHRNA 4; EBN 1; EBN; EBN1; ENFL1; FLJ95812; NACHR; nAChR alpha-4; NACHRA4;

Alias NACRA4; NARAC; Nicotinic Acetylcholine Receptor alpha 4; A4 nicotinic receptor; Acetylcholine receptor alpha 4 neural; Acetylcholine receptor neuronal nicotinic alpha 4 subunit; ACH 4; ACH4; Acra 4; Acra4; Alpha4 nAChR; BFNC; Cholinergic receptor nicotinic alpha polypeptide 4; ACHA4_HUMAN; NACRA 4; NACRA4; Neuronal acetylcholine receptor subunit alpha-4; Neuronal nicotinic acetylcholine receptor alpha 4 subunit; Neuronal nicotinic acetylcholine receptor alpha 4 subunit.

Research Area Tumour Neurobiology Channel protein The cell membrane 受体 The new supersedes the old

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human, Rat, (predicted: Mouse,)
WB=1:500-2000 (Paraffin sections need antigen repair)

Applications not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 67kDa

Cellular localization The cell membrane

Form Liquid

Concentration 1mg/ml

immunogen KLH conjugated synthetic peptide derived from human CHRNA4: 151-250/627 <Cytoplasmic>

Lsotype IgG

Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed This gene encodes a nicotinic acetylcholine receptor, which belongs to a superfamily of ligand-gated ion channels that play a role in fast signal transmission at synapses. These pentameric receptors can bind acetylcholine, which causes an extensive change in conformation that leads to the opening of an ion-conducting channel across the plasma membrane. This protein is an integral membrane receptor subunit that can interact with either nAChR beta-2 or nAChR beta-4 to form a functional receptor. Mutations in this gene cause nocturnal frontal lobe epilepsy type1. Polymorphisms in this gene that provide protection against nicotine addiction have been described.
Product Detail	<p>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 permeable to sodium ions.</p> <p>Subunit: Neuronal AChR is composed of two different types of subunits: alpha and beta. Alpha-4 subunit can be combined to beta-2 or beta-4 to give rise to functional receptors, complexes with beta-2 may be heteropentamers. Interacts with RIC3; which is required for proper folding and assembly.</p> <p>Subcellular Location: Cell junction, synapse, postsynaptic cell membrane; Multi-pass membrane protein. Cell membrane; Multi-pass membrane protein. Cell membrane; Lipid-anchor (By similarity).</p> <p>DISEASE: Epilepsy, nocturnal frontal lobe, 1 (ENFL1) [MIM:600513]: An autosomal dominant focal epilepsy characterized by nocturnal seizures with hyperkinetic automatisms and poorly organized stereotyped movements. Note=The disease is caused by mutations affecting the gene represented in this entry.</p> <p>Similarity: Belongs to the ligand-gated ion channel (TC 1.A.9) family. Acetylcholine receptor (TC 1.A.9.1) subfamily. Alpha-4/CHRNA4 sub-subfamily.</p> <p>SWISS:</p>

P43681

Gene ID:
1137

Database links:

[Entrez Gene: 1137](#) Human

[Entrez Gene: 11438](#) Mouse

[Entrez Gene: 25590](#) Rat

[Omim: 118504](#) Human

[SwissProt: P43681](#) Human

[SwissProt: O70174](#) Mouse

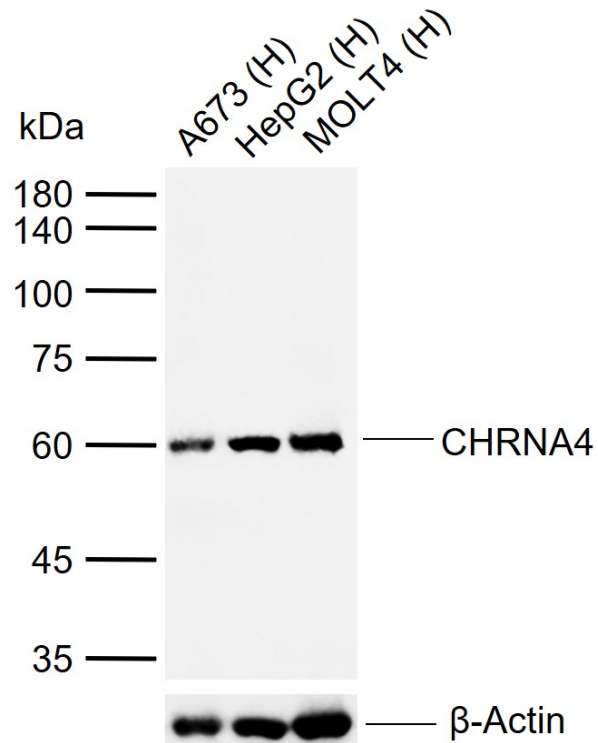
[SwissProt: P09483](#) Rat

[Unigene: 10734](#) Human

[Unigene: 252369](#) Mouse

[Unigene: 9697](#) Rat

**Product
Picture**



Sample:

Lane 1: Human A673 cell lysates

Lane 2: Human HepG2 cell lysates

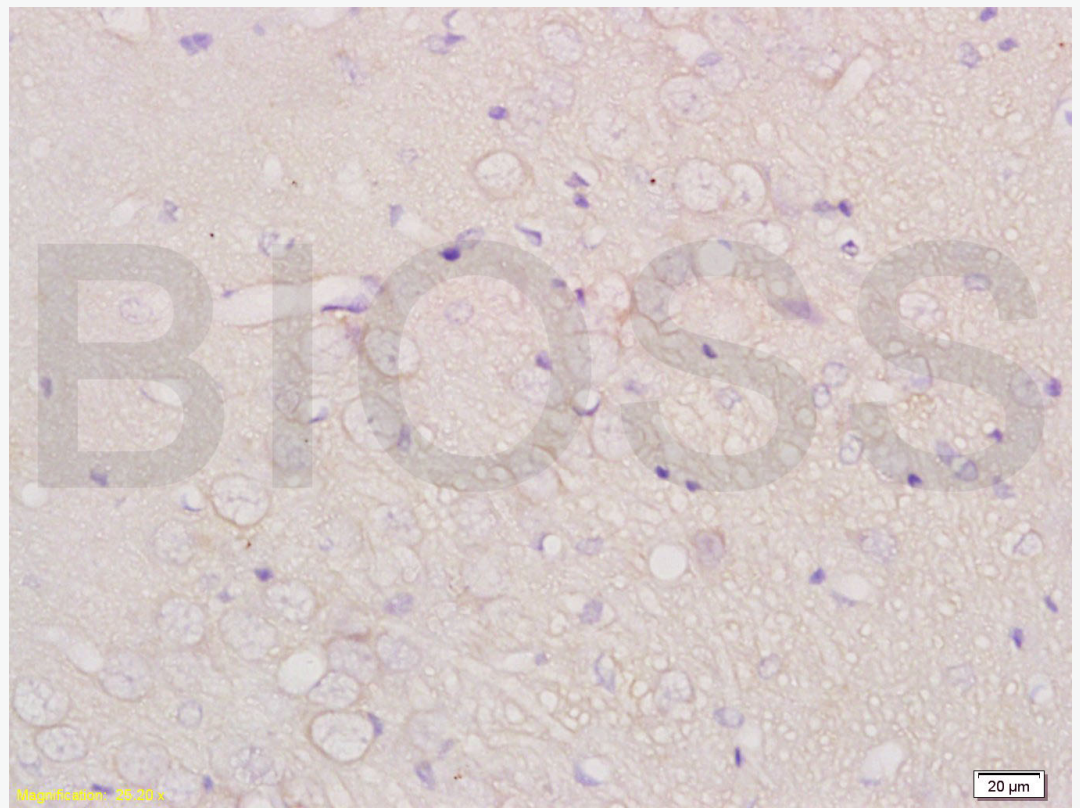
Lane 3: Human MOLT4 cell lysates

Primary: Anti-CHRNA4 (SL1038R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 67 kDa

Observed band size: 60 kDa



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-CHRNA4 Polyclonal Antibody, Unconjugated(SL1038R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining