bs-12111R **[Primary Antibody]**

CHRNA10 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 57053 **SWISS:** Q9GZZ6

Target: CHRNA10

Immunogen: KLH conjugated synthetic peptide derived from human CHRNA10: 101-200/450. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

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. ACh Ralpha 10, also known as CHRNA10, is a 450 amino acid multi-pass membrane protein expressed in inner-ear tissue, tonsil, immortalized B-cells, cultured T-cells and peripheral blood lymphocytes. AChR alpha 10 forms a hetero-oligomeric channels in conjunction with AChR alpha 9 and is considered an ionotropic receptor with a probable role in the modulation of auditory stimuli.

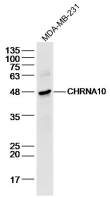
Applications: **WB** (1:500-2000)

Reactivity: Human (predicted: Mouse, Rat, Rabbit, Pig, Sheep, Cow, Dog, Horse)

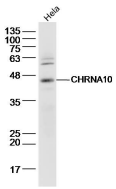
Predicted MW.: 47 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: MDA-MB-231(human)cell Lysate at 40 ug Primary: Anti- CHRNA10 (bs-12111R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47kD Observed band size: 47 kD



Sample: Hela(human)cell Lysate at 30 ug Primary: Anti- CHRNA10 (bs-12111R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 47kD Observed band size: 47 kD