bs-12113R **[Primary Antibody]**

CHRNA9 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 55584 **SWISS:** Q9UGM1

Target: CHRNA9

Immunogen: KLH conjugated synthetic peptide derived from human CHRNA9: 51-150/479. < 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. AChR alpha 9 is the only AChR found in cochlear hair cells. In adult rat cochlear outer hair cells (OHCs), AChR alpha 9 is expressed primarily in basal regions, where it is a component of the cholinergic receptor, while in inner hair cells (IHCs), it is expressed primarily in apical regions. The alpha 9 subunit mediates efferent synaptic transmission between cholinergic olivocochlear fibers and OHCs. One of the main functions of the AChR alpha 9 channel is to provide a pathway for calcium ion influx. AChR alpha 9 may also influence the arrival of efferent axons.

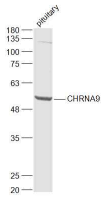
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)

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

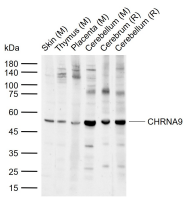
Predicted MW.: 52 kDa

Subcellular Location: Cell membrane

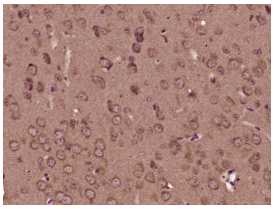
VALIDATION IMAGES



Sample: Pituitary(Rat) Lysate at 40 ug Primary: Anti-CHRNA9 (bs-12113R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52 kD Observed band size: 52 kD



Sample: Lane 1: Mouse Skin tissue lysates Lane 2: Mouse Thymus tissue lysates Lane 3: Mouse Placenta tissue lysates Lane 4: Mouse Cerebellum tissue lysates Lane 5: Rat Cerebrum tissue lysates Lane 6: Rat Cerebellum tissue lysates Primary: Anti-CHRNA9 (bs-12113R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 52 kDa Observed band size: 52 kDa



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (CHRNA9) Polyclonal Antibody, Unconjugated (bs-12113R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.