bs-6058R **[Primary Antibody]**

Nicastrin Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 23385 **SWISS:** Q92542

Target: Nicastrin

Immunogen: KLH conjugated synthetic peptide derived from human Nicastrin: 21-120/709. < 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: The Presenilin 1 (PS1) and Presenilin 2 (PS2) transmembrane proteins are components of high molecular weight complexes. These complexes mediate proteolytic cleavage within the transmembrane domain of several proteins, including the ∫-Amyloid precursor protein (∫APP) and Notch. Missense mutations in the genes encoding the Presenilin proteins increase the proteolysis of ∫APP and results in the overproduction of the neurotoxic ∫-Amyloid peptide, which results in a condition associated with Familial Alzheimer's disease (FAD). A novel component of the presenilin complex, nicastrin, is a type I transmembrane glycoprotein that is involved in mediating Notch/GLP-1 signaling. In addition, nicastrin contributes to the processing of ∫APP, which makes nicastrin an attractive potential target for modulating the production of ∫-Amyloid in patients with Alzheimer's disease. Originally purified from immunoprecipitated PS1 complexes from HEK293 cells, nicastrin contains hydrophilic amino and carboxy-terminal domains, a short, hydrophobic transmembrane domain and potential N-myristoylation and phosphorylation sites.

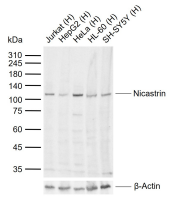
Applications: **WB** (1:500-2000)

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

Predicted MW.: 75 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: Lane 1: Human Jurkat cell lysates Lane 2: Human HepG2 cell lysates Lane 3: Human HeLa cell lysates Lane 4: Human HL-60 cell lysates Lane 5: Human SH-SY5Y cell lysates Primary: Anti-Nicastrin (bs-6058R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 75 kDa Observed band size: 110 kDa

SELECTED CITATIONS

- **[IF=8.58]** Ku, Tingting, et al. "NF-κB-regulated microRNA-574-5p underlies synaptic and cognitive impairment in response to atmospheric PM 2.5 aspiration." Particle and Fibre Toxicology 14.1 (2017): 34. WB ;Mouse. 28851397

- **[IF=1.396]** Xiao YJ et al. hsa-miR-155 targeted NCSTN 3'UTR mutation promotes the pathogenesis and development of acne inversa. Int J Clin Exp Pathol. 2018;11(4):1878-1889. IHC ;Human. ISSN:1936-2625/IJCEP0072665