**Product Information**

**Anti-Nicastrin**
produced in rabbit, IgG fraction of antiserum

**Catalog Number** N1660

**Product Description**

Anti-Nicastrin is produced in rabbit using as immunogen a synthetic peptide corresponding to the C-terminus of human nicastrin (amino acids 693-709) conjugated to keyhole limpet hemocyanin (KLH). This sequence is identical in mouse nicastrin. Whole antiserum is purified to provide an IgG fraction of antiserum.

Nicastrin binds to the membrane-tethered form of Notch and is essential for the intramembrane cleavage of Notch to generate Notch intracellular domain (NICD), which is involved in intracellular signaling. It has been suggested that nicastrin binds substrates of presenilin/γ-secretase complexes or modulates γ-secretase activity.

Nicastrin binds to β-APP and its C-terminal α- and β-cleaved forms and is able to modulate the production of Aβ peptide. Missense mutations in a conserved hydrophilic domain of nicastrin increases Aβ peptide secretion. Deletions in this domain inhibit Aβ production.

**Immunoblotting**

A minimum working antibody dilution of 1:1,000 is recommended using a whole cell extract of the HEK293 cell line stably transfected with human nicastrin.

**Reagent**

Solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide.

**Precautions and Disclaimer**

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

**Storage/Stability**

For continuous use, store at 2-8 °C for up to one month. For prolonged storage, freeze in working aliquots at −20 °C. Repeated freezing and thawing, or storage in frost-free freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilutions should be discarded if not used within 12 hours.

**Product Profile**

Immunoblotting: a minimum working antibody dilution of 1:1,000 is recommended using a whole cell extract of the HEK293 cell line stably transfected with human nicastrin.
Note: In order to obtain the best results using different techniques and preparations, we recommend determining the optimal working dilutions by titration.

References