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#3632

Nicastrin Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	110, 120	Rabbit	#Q92542	23385

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Nicastrin Antibody detects endogenous levels of Nicastrin.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminus of human Nicastrin. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Nicastrin is a transmembrane glycoprotein serving as an essential component of the γ -secretase complex (1,2). Nicastrin is physically associated with presenilin and plays an important role in the stabilization and correct localization of presenilin to the membrane-bound γ -secretase complex (3). Nicastrin also serves as a docking site for γ -secretase substrates such as APP and Notch, directly binding to them and properly presenting them to γ -secretase to ensure the correct cleavage process (2,4).

Background References

1. Yu, G. et al. (2000) *Nature* 407, 48-54.
2. Esler, W. P. et al. (2002) *Proc. Natl. Acad. Sci. USA* 99, 2720-2725.
3. Kopan, R. and Goate, A. (2002) *Neuron* 33, 321-324.
4. Chen, F. et al. (2001) *Nat. Cell Biol.* 3, 751-754.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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