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Nicastrin (D65G7) Rabbit mAb

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

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

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Nicastrin (D65G7) Rabbit mAb recognizes endogenous levels of total nicastrin protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala700 of human nicastrin protein.

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 **IP:** Immunoprecipitation

Cross-Reactivity Key

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

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