

#3632 Store at -20C

Nicastrin Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	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	<ol style="list-style-type: none"> 1. Yu, G. et al. (2000) <i>Nature</i> 407, 48-54. 2. Esler, W. P. et al. (2002) <i>Proc. Natl. Acad. Sci. USA</i> 99, 2720-2725. 3. Kopan, R. and Goate, A. (2002) <i>Neuron</i> 33, 321-324. 4. Chen, F. et al. (2001) <i>Nat. Cell Biol.</i> 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	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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