

#9447 Store at -20°C

Nicastrin (D65G7) Rabbit mAb



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Orders: 877-616-CELL (2355)
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Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

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

Product Usage Information	Application	Dilution
	Western Blotting	1:1000
	Immunoprecipitation	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	<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 IP: Immunoprecipitation
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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