

#5665 Store at -20C

## Nicastrin (D38F9) Rabbit mAb



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

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	Nicastrin (D38F9) Rabbit mAb recognizes endogenous levels of total Nicastrin protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val390 of human Nicastrin protein.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>Yu, G. et al. (2000) <i>Nature</i> 407, 48-54.</li> <li>Esler, W. P. et al. (2002) <i>Proc. Natl. Acad. Sci. USA</i> 99, 2720-2725.</li> <li>Kopan, R. and Goate, A. (2002) <i>Neuron</i> 33, 321-324.</li> <li>Chen, F. et al. (2001) <i>Nat. Cell Biol.</i> 3, 751-754.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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