

#13144 Store at -20C

## Neurogenin 2 (D2R3D) Rabbit mAb



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R	Endogenous	35	Rabbit IgG	#Q9H2A3	63973

<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>	Neurogenin 2 (D2R3D) Rabbit mAb recognizes endogenous levels of total neurogenin 2 protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human neurogenin 2 protein.	
<b>Background</b>	Neurogenin 2 (Ngn2, NeuroG2) is a proneural, basic helix-loop-helix transcription (bHLH) factor and member of the neurogenin family that includes neurogenin 1 and neurogenin 3 (1). Neurogenin 2 is expressed in neuronal progenitor cells, is required for generation of glutamatergic neurons and is commonly used as a marker of neuronal differentiation (2,3). Neurogenin 2 upregulates a number of targets including the bHLH transcription factor NeuroD (4). Phosphorylation of Ngn2 at Tyr241 controls migration and dendritic morphology of cortical neurons (5).	
<b>Background References</b>	1. Sommer, L. et al. (1996) <i>Mol Cell Neurosci</i> 8, 221-41. 2. Bertrand, N. et al. (2002) <i>Nat Rev Neurosci</i> 3, 517-30. 3. Ma, Y.C. et al. (2008) <i>Neuron</i> 58, 65-77. 4. Hindley, C. et al. (2012) <i>Development</i> 139, 1718-23. 5. Hand, R. et al. (2005) <i>Neuron</i> 48, 45-62.	

<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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