

Neurogenin 2 (D2R3D) Rabbit mAb

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|---------------------------|-----------------------------|-----------------------------------|------------------------|--------------------------------------|-------------------------------|---------------------------------|
| Applications: W | Reactivity: H M R | Sensitivity: Endogenous | MW (kDa): 35 | Source/Isotype: Rabbit IgG | UniProt ID: #Q9H2A3 | Entrez-Gene Id: 63973 |
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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, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Neurogenin 2 (D2R3D) Rabbit mAb recognizes endogenous levels of total neurogenin 2 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human neurogenin 2 protein.

Background

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).

Background References

1. Sommer, L. et al. (1996) *Mol Cell Neurosci* 8, 221-41.
2. Bertrand, N. et al. (2002) *Nat Rev Neurosci* 3, 517-30.
3. Ma, Y.C. et al. (2008) *Neuron* 58, 65-77.
4. Hindley, C. et al. (2012) *Development* 139, 1718-23.
5. Hand, R. et al. (2005) *Neuron* 48, 45-62.

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

Cross-Reactivity Key

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

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