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NEUROD2 (aa23-37) Antibody (internal region, near N-Term)

Peptide-affinity purified goat antibody
Catalog # AF3520a

Specification

NEUROD2 (aa23-37) Antibody (internal region, near N-Term) - Product Information

Application	**E**
Primary Accession	Q15784
Other Accession	NP_006151.3, 4761
Predicted	**Human, Mouse, Rat, Dog, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**41361**

NEUROD2 (aa23-37) Antibody (internal region, near N-Term) - Additional Information

Gene ID 4761

Other Names
Neurogenic differentiation factor 2, NeuroD2, Class A basic helix-loop-helix protein 1, bHLHa1, NeuroD-related factor, NDRF, NEUROD2, BHLHA1, NDRF

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
NEUROD2 (aa23-37) Antibody (internal region, near N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

NEUROD2 (aa23-37) Antibody (internal region, near N-Term) - Protein Information

Name NEUROD2

Synonyms BHLHA1, NDRF

Function
Transcriptional regulator implicated in neuronal determination. Mediates calcium-dependent transcription activation by binding to E box-containing promoter. Critical factor essential for the repression of the genetic program for neuronal differentiation; prevents the formation of synaptic vesicle clustering at active zone to the presynaptic membrane in postmitotic neurons. Induces transcription of ZEB1, which in turn represses neuronal differentiation by down- regulating REST

expression. Plays a role in the establishment and maturation of thalamocortical connections; involved in the segregation of thalamic afferents into distinct barrel domains within layer VI of the somatosensory cortex. Involved in the development of the cerebellar and hippocampal granular neurons, neurons in the basolateral nucleus of amygdala and the hypothalamic-pituitary axis. Associates with chromatin to the DPYSL3 E box-containing promoter (By similarity).

Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00981}.

NEUROD2 (aa23-37) Antibody (internal region, near N-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

NEUROD2 (aa23-37) Antibody (internal region, near N-Term) - Images

NEUROD2 (aa23-37) Antibody (internal region, near N-Term) - References

A possible impact of the neuroD2 transcription factor on the development of drug abusing behavior. Zill P, Büttner A, Eisenmenger W, Bondy B. Mol Psychiatry. 2006 Jun;11(6):525-7. PMID: 16607387