

**NEUROD2 (aa23-37) Antibody (internal region, near N-Term)**  
Peptide-affinity purified goat antibody  
Catalog # AF3520a

**Specification**

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

Application	E
Primary Accession	<a href="#">Q15784</a>
Other Accession	<a href="#">NP_006151.3</a> , <a href="#">4761</a>
Predicted	Human, Mouse, Rat, Dog
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 Cytometry](#)
- [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