

NEUROD2 antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI11454

Product Information

Application	WB
Primary Accession	Q15784
Other Accession	NM_006160 , NP_006151
Reactivity	Human, Mouse, Rat, Rabbit, Dog, Horse, Bovine
Predicted	Mouse, Rabbit, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	41361

Additional Information

Gene ID	4761
Alias Symbol	NDRF, bHLHa1
Other Names	Neurogenic differentiation factor 2, NeuroD2, Class A basic helix-loop-helix protein 1, bHLHa1, NeuroD-related factor, NDRF, NEUROD2, BHLHA1, NDRF
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-NEUROD2 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	NEUROD2 antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

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).

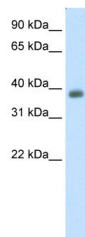
Cellular Location

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

References

Westerman, B.A., et al., (2004) Biochim. Biophys. Acta 1676 (1), 96-103
Reconstitution and Storage: For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.

Images



WB Suggested Anti-NEUROD2 Antibody Titration: 0.2-1
 $\mu\text{g/ml}$
ELISA Titer: 1:1562500
Positive Control: Human cerebellum

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.