

# Neuro D (Phospho-Ser274) Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP52597

#### **Product Information**

Application WB
Primary Accession Q13562
Host Rabbit
Clonality Polyclonal
Calculated MW 39920

#### **Additional Information**

**Gene ID** 4760

Other Names Neurogenic differentiation factor 1, NeuroD, NeuroD1, Class A basic

helix-loop-helix protein 3, bHLHa3, NEUROD1, BHLHA3, NEUROD

**Dilution** WB~~1:1000

Format Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4,

150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

Storage Conditions -20°C

#### **Protein Information**

Name NEUROD1

Synonyms BHLHA3, NEUROD

**Function** Acts as a transcriptional activator: mediates transcriptional activation by

binding to E box-containing promoter consensus core sequences 5'-CANNTG-3'. Associates with the p300/CBP transcription coactivator complex to stimulate transcription of the secretin gene as well as the gene encoding the cyclin-dependent kinase inhibitor CDKN1A. Contributes to the regulation of several cell differentiation pathways, like those that promote the formation of early retinal ganglion cells, inner ear sensory neurons, granule cells forming either the cerebellum or the dentate gyrus cell layer of the hippocampus, endocrine islet cells of the pancreas and enteroendocrine cells of the small intestine. Together with PAX6 or SIX3, is required for the regulation of amacrine cell fate specification. Also required for dendrite morphogenesis and maintenance in the cerebellar cortex. Associates with chromatin to enhancer regulatory elements in genes encoding key

transcriptional regulators of neurogenesis (By similarity).

Cytoplasm. Nucleus {ECO:0000255 | PROSITE-ProRule:PRU00981,

ECO:0000269 | PubMed:14752053 | Note=In pancreatic islet cells, shuttles to the nucleus in response to glucose stimulation (By similarity). Colocalizes with NR0B2 in the nucleus.

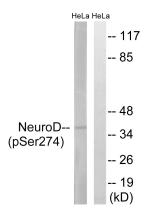
## **Background**

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## References

Tamimi R.,et al.Genomics 34:418-421(1996). Yokoyama M.,et al.Brain Res. Mol. Brain Res. 42:135-139(1996). Furuta H.,et al.Submitted (JAN-1998) to the EMBL/GenBank/DDBJ databases. Miyachi T.,et al.Brain Res. Mol. Brain Res. 69:223-231(1999). Noma T.,et al.Submitted (DEC-1997) to the EMBL/GenBank/DDBJ databases.

### **Images**



Western blot analysis of extracts from HeLa cells, treated with UV (15mins), using Neuro D (Phospho-Ser274) antibody.

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