

**Neuro D (Phospho-Ser274) Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP52597**

**Specification**

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**Neuro D (Phospho-Ser274) Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q13562</a>
Host	Rabbit
Clonality	Polyclonal
Calculated MW	39920

**Neuro D (Phospho-Ser274) Antibody - 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 Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

**Storage Conditions**

-20°C

**Neuro D (Phospho-Ser274) Antibody - 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).

### Cellular Location

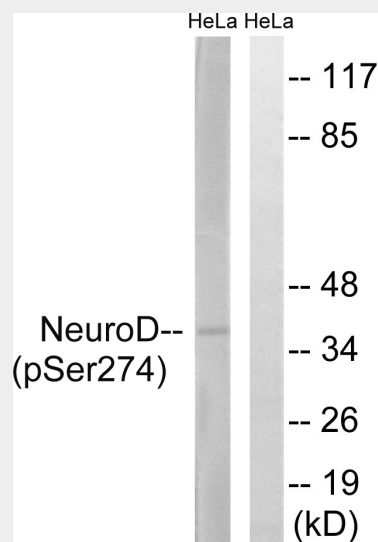
Cytoplasm. Nucleus {ECO:0000255|PROSITE-ProRule:PRU00981, ECO:0000269|PubMed:14752053} Note=In pancreatic islet cells, shuttles to the nucleus in response to glucose stimulation (By similarity). Colocalizes with NROB2 in the nucleus.

### Neuro D (Phospho-Ser274) Antibody - 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](#)

### Neuro D (Phospho-Ser274) Antibody - Images



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

### Neuro D (Phospho-Ser274) Antibody - Background

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**Neuro D (Phospho-Ser274) Antibody - 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.