10320 Camino Santa Fe, Suite G
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Neuro D (Phospho-Ser274) Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP52597

Specification

Neuro D (Phospho-Ser274) Antibody - Product Information

Application	**WB**
Primary Accession	Q13562
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 Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

Storage Conditions
-20℃

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).

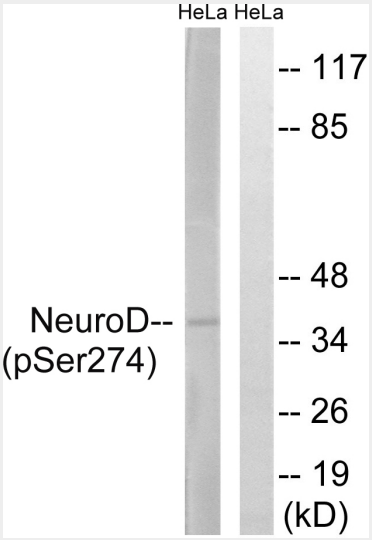
Cellular Location
Cytoplasm. Nucleus {ECO:0000255|PROSITE-ProRule:PRU00981, ECO:0000269|PubMed:14752053} Note=In pancreatic islet cells, shuttles to the nucleus in response to glucose stimulation (By similarity). Colocalizes with NR0B2 in the nucleus.

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 Cytomety
- 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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Yokoyama M.,et al.Brain Res. Mol. Brain Res. 42:135-139(1996).
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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.