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DANRE neurog1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # Azb10027b

Product Information

Application	WB, E
Primary Accession	O42606
Reactivity	Zebrafish
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	22911
Antigen Region	112-138

Additional Information

Gene ID	30239
Other Names	Neurogenin-1, NGN-1, Neurogenic differentiation factor 3, NeuroD3, Neurogenin-related protein 1, neurog1, neurod3, ngn1, ngr1
Target/Specificity	This DANRE neurog1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 112-138 amino acids from the Central region of DANRE neurog1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	DANRE neurog1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	neurog1
Synonyms	neurod3, ngn1, ngr1
Function	Transcriptional regulator. Activates transcription by binding to the E box-containing promoter (By similarity). Mediates neuronal differentiation. Required for the development of Rohon-Beard spinal sensory neurons and

	dorsal root ganglion neurons, but not for primary motoneurons or autonomic neurons. Required for development of all cranial ganglia but not associated glial cells. Regulates epiphysial neurogenesis, acting partially redundantly with ascl1a and downstream of flh. Required for the development of basal forebrain dopaminergic neurons; involved in the specification of dopaminergic progenitor cells. May be involved in maintaining rhombomere boundaries in the hindbrain.
Cellular Location	Nucleus.
Tissue Location	Embryonic nervous system. Expressed transiently in neurogenic placodes prior to delamination and formation of cranial ganglia. Expressed early (6-somite stage) in Rohon-Beard spinal sensory neurons and later in neural crest-derived dorsal root ganglion neurons At 24 hours post-fertilization (hpf), expressed in specific regions of the brain and spinal cord. In hindbrain, expressed in presumptive neuroblasts adjacent to the rhombomere boundaries. In basal forebrain, expressed in dopaminergic progenitor cells

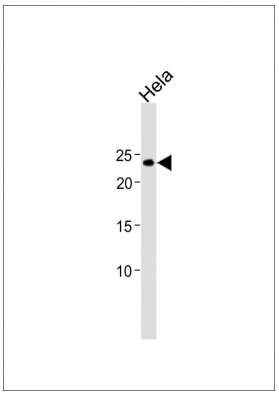
Background

Transcriptional regulator. Activates transcription by binding to the E box-containing promoter (By similarity). Mediates neuronal differentiation. Required for the development of Rohon-Beard spinal sensory neurons and dorsal root ganglion neurons, but not for primary motoneurons or autonomic neurons. Required for development of all cranial ganglia but not associated glial cells. Regulates epiphysial neurogenesis, acting partially redundantly with ascl1a and downstream of flh. Required for the development of basal forebrain dopaminergic neurons; involved in the specification of dopaminergic progenitor cells. May be involved in maintaining rhombomere boundaries in the hindbrain.

References

Blader P., et al. Development 124:4557-4569(1997).
Kim C.-H., et al. Neurosci. Lett. 239:113-116(1997).
Korzh V., et al. Dev. Dyn. 213:92-104(1998).
Thisse B., et al. Submitted (MAR-1997) to the EMBL/GenBank/DDBJ databases.
Cornell R.A., et al. Development 129:2639-2648(2002).

Images



All lanes: Anti-RON Antibody at 1:500 dilution + Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 152 KDa Blocking/Dilution buffer: 5% NFDM/TBST.