FOXN4 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP13490a

Specification

FOXN4 Antibody (N-term) Blocking peptide - Product Information

Primary Accession   Q96NZ1

FOXN4 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 121643

Other Names
Forkhead box protein N4, FOXN4

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13490a was selected from the N-term region of FOXN4. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

FOXN4 Antibody (N-term) Blocking peptide - Protein Information

Name FOXN4

Function
Transcription factor essential for neural and some non-neural tissues development, such as retina and lung respectively. Binds to an 11-bp consensus sequence containing the invariant tetranucleotide 5'- ACGC-3'. During development of the central nervous system, is required to specify the amacrine and horizontal cell fates from multipotent retinal progenitors while suppressing the alternative photoreceptor cell fates through activating DLL4-NOTCH signaling. Also acts synergistically with ASCL1/MASH1 to activate DLL4-NOTCH signaling and drive commitment of p2 progenitors to the V2b interneuron fates during spinal cord neurogenesis. In development of non-neural tissues, plays an essential role in the specification of the atrioventricular canal and is indirectly required for patterning the distal airway during lung development (By similarity).

Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00089}.

FOXN4 Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

FOXN4 Antibody (N-term) Blocking peptide - Images

FOXN4 Antibody (N-term) Blocking peptide - Background

Members of the winged-helix/forkhead family oftranscription factors, such as FOXN4, are characterized by a110-amino acid DNA-binding domain that can fold into a variant ofthe helix-turn-helix motif consisting of 3 alpha helices flanked by2 large loops or wings. These transcription factors are involved ina variety of biologic processes as key regulators in developmentand metabolism (Li et al., 2004 [PubMed 15363391]).[supplied byOMIM].

FOXN4 Antibody (N-term) Blocking peptide - References

Scherer, S.E., et al. Nature 440(7082):346-351(2006)Katoh, M., et al. Int. J. Mol. Med. 14(5):949-953(2004)Danilova, N., et al. Brain Res. Dev. Brain Res. 153(1):115-119(2004)Li, S., et al. Neuron 43(6):795-807(2004)