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MESP2 Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP5705a

Specification

MESP2 Antibody (N-term) Blocking peptide - Product Information

Primary Accession	Q0VG99
Other Accession	NP_001035047.1

MESP2 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 145873

Other Names
Mesoderm posterior protein 2, Class C basic helix-loop-helix protein 6, bHLHc6, MESP2, BHLHC6, SCDO2

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.

MESP2 Antibody (N-term) Blocking peptide - Protein Information

Name MESP2

Synonyms BHLHC6, SCDO2

Function
Transcription factor with important role in somitogenesis. Defines the rostrocaudal patterning of the somite by participating in distinct Notch pathways. Also regulates the FGF signaling pathway. Specifies the rostral half of the somites. Generates rostro-caudal polarity of somites by down-regulating in the presumptive rostral domain DLL1, a Notch ligand. Participates in the segment border formation by activating in the anterior presomitic mesoderm LFNG, a negative regulator of DLL1-Notch signaling. Acts as a strong suppressor of Notch activity. Together with MESP1 is involved in the epithelialization of somitic mesoderm and in the development of cardiac mesoderm.

Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00981}.

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MESP2 Antibody (N-term) Blocking peptide - Protocols

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

- Blocking Peptides

MESP2 Antibody (N-term) Blocking peptide - Images

MESP2 Antibody (N-term) Blocking peptide - Background

MESP2 is a member of the bHLH family oftranscription factors and plays a key role in defining therostrocaudal patterning of somites via interactions with multipleNotch signaling pathways. This gene is expressed in the anteriorpresomitic mesoderm and is downregulated immediately after theformation of segmented somites. This gene also plays a role in theformation of epithelial somitic mesoderm and cardiac mesoderm.

MESP2 Antibody (N-term) Blocking peptide - References

Cornier, A.S., et al. Am. J. Hum. Genet. 82(6):1334-1341(2008)Morimoto, M., et al. Dev. Biol. 300(2):687-698(2006)Whittock, N.V., et al. Am. J. Hum. Genet. 74(6):1249-1254(2004)McLellan, A.S., et al. Mech. Dev. 119 SUPPL 1, S285-S291 (2002) :Haraguchi, S., et al. Mech. Dev. 108 (1-2), 59-69 (2001) :