10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

LMCD1 Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP21108a

Specification

LMCD1 Blocking Peptide (C-term) - Product Information

Primary Accession Q9NZU5

LMCD1 Blocking Peptide (C-term) - Additional Information

Gene ID 29995

Other Names
LIM and cysteine-rich domains protein 1, Dyxin, LMCD1

Target/Specificity
The synthetic peptide sequence is selected from aa 316-330 of HUMAN LMCD1

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.

LMCD1 Blocking Peptide (C-term) - Protein Information

Name LMCD1

Function
Transcriptional cofactor that restricts GATA6 function by inhibiting DNA-binding, resulting in repression of GATA6 transcriptional activation of downstream target genes. Represses GATA6-mediated trans activation of lung- and cardiac tissue-specific promoters. Inhibits DNA-binding by GATA4 and GATA1 to the cTNC promoter (By similarity). Plays a critical role in the development of cardiac hypertrophy via activation of calcineurin/nuclear factor of activated T-cells signaling pathway.

Cellular Location
Cytoplasm. Nucleus. Note=May shuttle between the cytoplasm and the nucleus.

Tissue Location
Expressed in the heart (at protein level). Expressed in many tissues with highest abundance in skeletal muscle

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

LMCD1 Blocking Peptide (C-term) - Protocols

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

- Blocking Peptides

LMCD1 Blocking Peptide (C-term) - Images

LMCD1 Blocking Peptide (C-term) - Background

Transcriptional cofactor that restricts GATA6 function by inhibiting DNA-binding, resulting in repression of GATA6 transcriptional activation of downstream target genes. Represses GATA6-mediated trans activation of lung- and cardiac tissue- specific promoters. Inhibits DNA-binding by GATA4 and GATA1 to the cTNC promoter (By similarity). Plays a critical role in the development of cardiac hypertrophy via activation of calcineurin/nuclear factor of activated T-cells signaling pathway.

LMCD1 Blocking Peptide (C-term) - References

Bespalova I.N.,et al.Genomics 63:69-74(2000).
Holt H.H.,et al.Submitted (DEC-1999) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Rath N.,et al.Mol. Cell. Biol. 25:8864-8873(2005).
Bian Z.Y.,et al.Hypertension 55:257-263(2010).