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FBLIM1 Antibody (C-term) Blocking peptide

Synthetic peptide
Catalog # BP12719b

Specification

FBLIM1 Antibody (C-term) Blocking peptide - Product Information

Primary Accession Q8WUP2

FBLIM1 Antibody (C-term) Blocking peptide - Additional Information

Gene ID 54751

Other Names
Filamin-binding LIM protein 1, FBLP-1, Migfilin, Mitogen-inducible 2-interacting protein, MIG2-interacting protein, FBLIM1, FBLP1

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.

FBLIM1 Antibody (C-term) Blocking peptide - Protein Information

Name FBLIM1

Synonyms FBLP1

Function
Serves as an anchoring site for cell-ECM adhesion proteins and filamin-containing actin filaments. Is implicated in cell shape modulation (spreading) and motility. May participate in the regulation of filamin-mediated cross-linking and stabilization of actin filaments. May also regulate the assembly of filamin-containing signaling complexes that control actin assembly. Promotes dissociation of FLNA from ITGB3 and ITGB7. Promotes activation of integrins and regulates integrin-mediated cell-cell adhesion.

Cellular Location
Cell junction, focal adhesion. Cytoplasm, cytoskeleton, stress fiber Note=Associated with actin stress fiber at cell-ECM focal adhesion sites (PubMed:12679033, PubMed:18829455). Isoform 1 and isoform 3 are recruited and localized at actin stress fibers and clustered at cell- EMC adhesion sites through interaction with FERMT2 (PubMed:12679033) Isoform 2 is localized at actin stress fibers (PubMed:12496242)

Tissue Location

Isoform 1 and isoform 3 are expressed in heart, kidney, lung, pancreas, placenta and platelets. Isoform 2 is expressed in brain, heart, kidney, lung, pancreas, placenta, skeletal muscle and platelets.

FBLIM1 Antibody (C-term) Blocking peptide - Protocols

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

- Blocking Peptides

FBLIM1 Antibody (C-term) Blocking peptide - Images

FBLIM1 Antibody (C-term) Blocking peptide - Background

This gene encodes a protein with an N-terminalfilamin-binding domain, a central proline-rich domain, and,multiple C-terminal LIM domains. This protein localizes at celljunctions and may link cell adhesion structures to the actincytoskeleton. This protein may be involved in the assembly andstabilization of actin-filaments and likely plays a role inmodulating cell adhesion, cell morphology and cell motility. Thisprotein also localizes to the nucleus and may affect cardiomyocytedifferentiation after binding with the CSX/NKX2-5 transcriptionfactor. Alternative splicing results in multiple transcriptvariants encoding different isoforms.

FBLIM1 Antibody (C-term) Blocking peptide - References

Zhao, J., et al. J. Biol. Chem. 284(49):34308-34320(2009)Ithychanda, S.S., et al. J. Biol. Chem. 284(7):4713-4722(2009)Lad, Y., et al. J. Biol. Chem. 283(50):35154-35163(2008)Lai-Cheong, J.E., et al. J. Invest. Dermatol. 128(9):2156-2165(2008)Papachristou, D.J., et al. Histopathology 51(4):499-508(2007)