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ILK1/ILK2 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP7651a

Specification

ILK1/ILK2 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O55222

ILK1/ILK2 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 16202

Other Names
Integrin-linked protein kinase, Ilk

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7651a was selected from the N-term region of human ILK1 . 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.

ILK1/ILK2 Antibody (N-term) Blocking Peptide - Protein Information

Name Ilk {ECO:0000312|MGI:MGI:1195267}

Function
Receptor-proximal protein kinase regulating integrin-mediated signal transduction. May act as a mediator of inside-out integrin signaling. Focal adhesion protein part of the complex ILK-PINCH. This complex is considered to be one of the convergence points of integrin- and growth factor-signaling pathway. Could be implicated in mediating cell architecture, adhesion to integrin substrates and anchorage-dependent growth in epithelial cells. Regulates cell motility by forming a complex with PARVB. Phosphorylates beta-1 and beta-3 integrin subunit on serine and threonine residues, but also AKT1 and GSK3B.

Cellular Location
Cell junction, focal adhesion. Cell membrane; Peripheral membrane protein; Cytoplasmic side {ECO:0000250|UniProtKB:Q13418}. Cytoplasm, myofibril, sarcomere {ECO:0000250|UniProtKB:Q13418}. Cell projection, lamellipodium

Tissue Location
Highly expressed in lung, heart, kidney, liver, brain, spleen and skeletal muscle. Weakly expressed in testis

ILK1/ILK2 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

ILK1/ILK2 Antibody (N-term) Blocking Peptide - Images

ILK1/ILK2 Antibody (N-term) Blocking Peptide - Background

Transduction of extracellular matrix signals through integrins influences intracellular and extracellular functions, and appears to require interaction of integrin cytoplasmic domains with cellular proteins. Integrin-linked kinase (ILK), interacts with the cytoplasmic domain of beta-1 integrin. ILK encodes a predicted 451-amino acid protein, with an apparent molecular weight of 59 kD. The ILK protein is a serine/threonine protein kinase with 4 ankyrin-like repeats. ILK regulates integrin-mediated signal transduction.

ILK1/ILK2 Antibody (N-term) Blocking Peptide - References

Li, Y., et al., J. Clin. Invest. 112(4):503-516 (2003).Troussard, A.A., et al., J. Biol. Chem. 278(25):22374-22378 (2003).Marotta, A., et al., Br. J. Cancer 88(11):1755-1762 (2003).Cordes, N., et al., Br. J. Cancer 88(9):1470-1479 (2003).Fukuda, T., et al., J. Cell Biol. 160(7):1001-1008 (2003).