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ILK Antibody (T173)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP7651f

Specification

ILK Antibody (T173) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q13418
Other Accession	Q99J82, O55222, Q3SWY2, NP_004508, Q9DF58
Reactivity	**Human**
Predicted	**Bovine, Chicken, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**151-180**

ILK Antibody (T173) - Additional Information

Gene ID 3611

Other Names
Integrin-linked protein kinase, 59 kDa serine/threonine-protein kinase, ILK-1, ILK-2, p59ILK, ILK, ILK1, ILK2

Target/Specificity
This ILK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 151-180 amino acids from human ILK.

Dilution
WB~~1:1000
IHC-P~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
ILK Antibody (T173) is for research use only and not for use in diagnostic or therapeutic procedures.

ILK Antibody (T173) - Protein Information

Name ILK (HGNC:6040)

Function Receptor-proximal protein kinase regulating integrin-mediated signal transduction (PubMed:8538749, PubMed:9736715). May act as a mediator of inside-out integrin signaling (PubMed:10712922). Focal adhesion protein part of the complex ILK-PINCH (PubMed:10712922). This complex is considered to be one of the convergence points of integrin- and growth factor-signaling pathway (PubMed:10712922). Could be implicated in mediating cell architecture, adhesion to integrin substrates and anchorage-dependent growth in epithelial cells (PubMed:10712922). Regulates cell motility by forming a complex with PARVB (PubMed:32528174). Phosphorylates beta-1 and beta-3 integrin subunit on serine and threonine residues, but also AKT1 and GSK3B (PubMed:8538749, PubMed:9736715).

Cellular Location
Cell junction, focal adhesion. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection, lamellipodium {ECO:0000250|UniProtKB:O55222}. Cytoplasm, myofibril, sarcomere

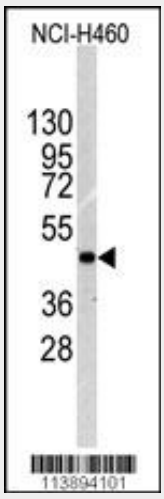
Tissue Location
Highly expressed in heart followed by skeletal muscle, pancreas and kidney. Weakly expressed in placenta, lung and liver

ILK Antibody (T173) - Protocols

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

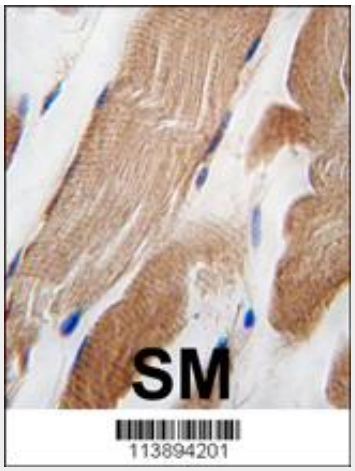
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

ILK Antibody (T173) - Images



Western blot analysis of anti-ILK Antibody (T173) (RB13894) in NCI-H460 cell line lysates (35ug/lane). EN1(arrow) was detected using the purified Pab.

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Formalin-fixed and paraffin-embedded human skeletal muscle tissue reacted with ILK Antibody (T173) (Cat.#AP7651f) antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

ILK Antibody (T173) - 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 is a serine/threonine protein kinase with 4 ankyrin-like repeats, which associates with the cytoplasmic domain of beta integrins and acts as a proximal receptor kinase regulating integrin-mediated signal transduction.

ILK Antibody (T173) - 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).

ILK Antibody (T173) - Citations

- Extracellular Matrix Protein Coating of Processed Fish Scales Improves Human Corneal Endothelial Cell Adhesion and Proliferation.