

Phospho-ILK(T173) Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3488a

Specification

Phospho-ILK(T173) Antibody - Product Information

Application	DB,E
Primary Accession	Q13418
Other Accession	Q99J82 , O55222 , Q3SWY2 , NP_004508 , Q9DF58
Reactivity Predicted	Human Bovine, Chicken, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig

Phospho-ILK(T173) Antibody - 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 phosphopeptide corresponding to amino acid residues surrounding T173 of human ILK.

Dilution

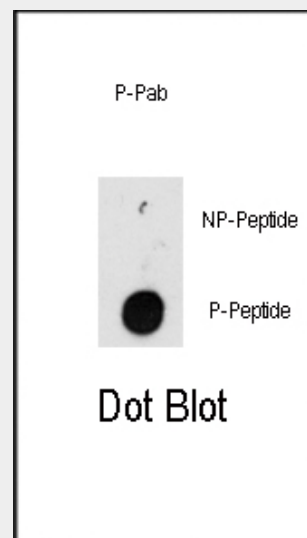
DB~~1:500

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



Dot blot analysis of anti-ILK-pT173 Pab (RB13894) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

Phospho-ILK(T173) Antibody - 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.

Phospho-ILK(T173) Antibody - 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

cycles.

Precautions

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

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).

Phospho-ILK(T173) Antibody - Protein Information

Name ILK ([HGNC:6040](#))

Function

Receptor-proximal protein kinase regulating integrin-mediated signal transduction (PubMed:<a href="http://www.uniprot.org/citations/8538749"

target="_blank">8538749 ,

PubMed:<a href="http://www.uniprot.org/citations/9736715"

target="_blank">9736715). May act

as a mediator of inside-out integrin signaling (PubMed:<a href="http://www.uniprot.org/citations/10712922"

target="_blank">10712922). Focal

adhesion protein part of the complex ILK-PINCH (PubMed:<a href="http://www.uniprot.org/citations/10712922"

target="_blank">10712922). This

complex is considered to be one of the convergence points of integrin- and growth factor-signaling pathway (PubMed:<a href="http://www.uniprot.org/citations/10712922"

target="_blank">10712922). Could be implicated in mediating cell architecture, adhesion to integrin substrates and anchorage-dependent growth in epithelial cells (PubMed:<a href="http://www.uniprot.org/citations/10712922"

target="_blank">10712922).

Regulates cell motility by forming a complex with PARVB (PubMed:<a href="http://www.uniprot.org/citations/32528174"

target="_blank">32528174).

Phosphorylates beta-1 and beta-3 integrin subunit on serine and threonine residues, but also AKT1 and GSK3B (PubMed:<a href="http://www.uniprot.org/citations/8538749"

target="_blank">8538749 , PubMed:<a href="http://www.uniprot.org/citations/9736715"

target="_blank">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

Phospho-ILK(T173) Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Phospho-ILK(T173) Antibody - Citations

- [Preservation of epithelial progenitor cells from collagenase-digested oral mucosa during ex vivo cultivation.](#)
- [Preservation of Human Limbal Epithelial Progenitor Cells on Carbodiimide Cross-linked Amniotic Membrane via Integrin-Linked Kinase-mediated Wnt Activation.](#)