10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

ILK1 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10308

Specification

ILK1 Antibody - Product Information

Application	**WB**
Primary Accession	O55222
Other Accession	NP_034692
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**51373**

ILK1 Antibody - Additional Information

Gene ID 16202

Application & Usage	**Western blotting (0.5-4 µg/ml), Immunohistochemistry (10-20 µg/ml, frozen & paraffin). However, the optimal concentrations should be determined individually. The antibody recognizes 59 kDa of ILK1 from samples of human, mouse, and rat origins. Reactivity to other species has not been determined.**

Other Names
p59ILK , ILK-1 , P59 , DKFZp686F1765

Target/Specificity
ILK1

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
ILK1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ILK1 Antibody - 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 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 Cytomety
- Cell Culture

ILK1 Antibody - Images

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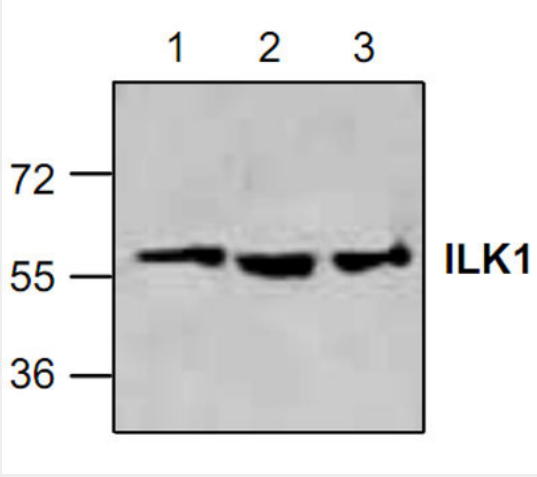

Western blot analysis of ILK1 in Jurkat cell lysate (Lane 1&2) and rat kidney tissue lysate (Lane 3).

ILK1 Antibody - Background

ILKs (Integrin-linked kinases) in combination with integrins and growth factors regulate cell survival, cell cycle, cell-cell adhesion and cell motility. ILK functions as a scaffold bridging the extra-cellular matrix (ECM) and growth factor receptors to the actin cytoskeleton thro µgh interactions with integrin, PINCH (which links ILK to the RTKs via Nck2), CH-ILKBP and affixin. ILK phosphorylates several cellular targets including Akt, GSK-3, myosin light chain 2, as well as affixin. These phosphorylation events are key regulatory steps in modulating the activities of the targets.