

**ILK1 Antibody**  
**Rabbit Polyclonal Antibody**  
**Catalog # ABV10308****Specification**

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**ILK1 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">O55222</a>
Other Accession	<a href="#">NP_034692</a>
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.
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**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

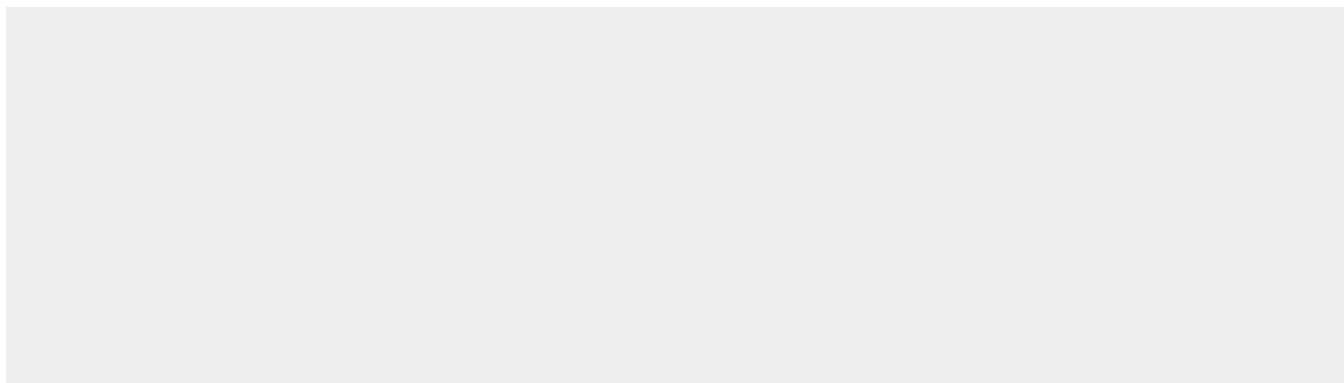
Highly expressed in lung, heart, kidney, liver, brain, spleen and skeletal muscle. Weakly expressed in testis

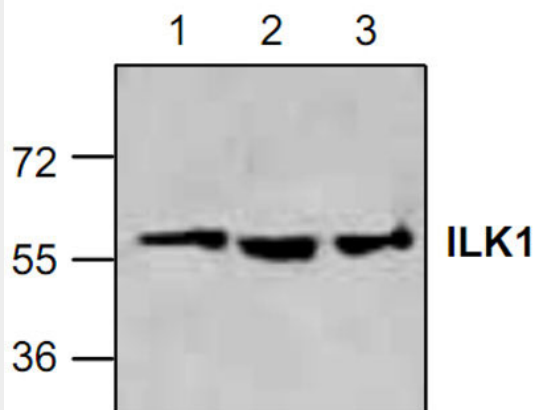
## ILK1 Antibody - Protocols

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

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

## ILK1 Antibody - Images





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 through 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.