**Product Datasheet**

# ILK Antibody

Catalog No: #32090

Package Size: #32090-1 50ul #32090-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

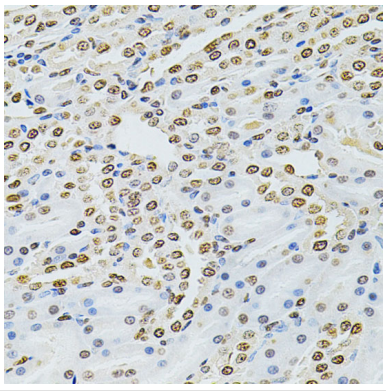
## Description

| | |
|---|---|
| Product Name | ILK Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Purification | Antibodies were purified by affinity purification using immunogen. |
| Applications | WB,IHC |
| Species Reactivity | Human,Mouse,Rat |
| Specificity | The antibody detects endogenous level of total ILK protein. |
| Immunogen Type | Recombinant Protein |
| Immunogen Description | Recombinant protein of human ILK. |
| Target Name | ILK |
| Other Names | ILK; DKFZp686F1765; P59; ILK1; |
| Accession No. | Swiss-Prot:Q13418NCBI Gene ID:3611 |
| Uniprot | Q13418 |
| GeneID | 3611; |
| SDS-PAGE MW | 59KD |
| Concentration | 1.0mg/ml |
| Formulation | Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage | Store at -20°C |

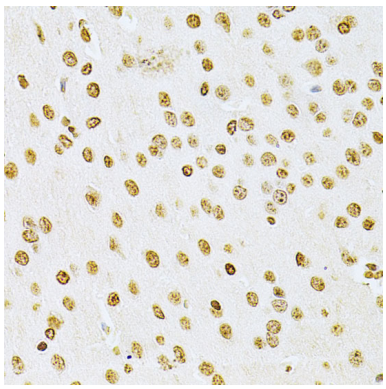
## Application Details

WB□1:500 - 1:1000IHC□1:50 - 1:100

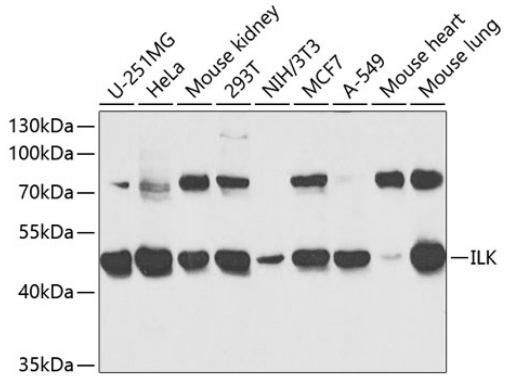
## Images



Immunohistochemistry of paraffin-embedded rat kidney using ILK at dilution of 1:200 (40x lens).



Immunohistochemistry of paraffin-embedded mouse brain using ILK at dilution of 1:200 (40x lens).




Western blot analysis of extracts of various cell lines, using ILK at 1:1000 dilution.

## Background

Integrin-linked kinases (ILKs) couple integrins and growth factors to downstream pathways involved in cell survival, cell cycle control, cell-cell adhesion and cell motility (1). ILK functions as a scaffold bridging the extracellular 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 (1). ILK phosphorylates Akt at Ser473, GSK-3 on Ser9, myosin light chain 2 (MLC2) on Ser18/Thr19, as well as affixin (2-5). These phosphorylation events are key regulatory steps in modulating the activities of the targets. ILK activity is stimulated by PI3 kinase and negatively regulated by the tumor suppressor PTEN and a PP2C protein phosphatase, ILKAP (1,3,6). It has been suggested that the conserved Ser343 residue in the activation loop plays a key role in the activation of ILK1 (2).

Note: This product is for in vitro research use only