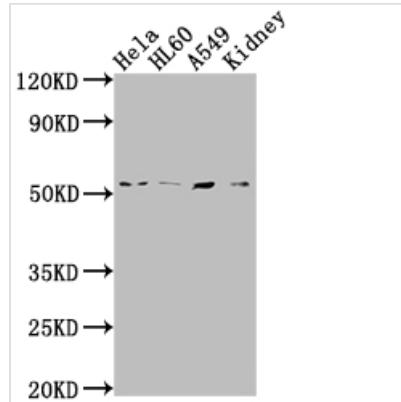




# ILK Antibody

<b>Product Code</b>	CSB-RA963626A0HU
<b>Storage</b>	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
<b>Uniprot No.</b>	Q13418
<b>Immunogen</b>	A synthesized peptide derived from human ILK
<b>Species Reactivity</b>	Human, Mouse
<b>Tested Applications</b>	ELISA, WB, IF, IP; Recommended dilution: WB:1:500-1:5000, IF:1:20-1:200, IP:1:200-1:1000
<b>Relevance</b>	Receptor-proximal protein kinase regulating integrin-mediated signal transduction (PubMed:8538749, PubMed:9736715). 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. Phosphorylates beta-1 and beta-3 integrin subunit on serine and threonine residues, but also AKT1 and GSK3B (PubMed:8538749, PubMed:9736715).
<b>Form</b>	Liquid
<b>Conjugate</b>	Non-conjugated
<b>Storage Buffer</b>	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
<b>Purification Method</b>	Affinity-chromatography
<b>Isotype</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Product Type</b>	Recombinant Antibody
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Research Area</b>	Signal transduction
<b>Gene Names</b>	ILK
<b>Accession NO.</b>	6A5

Image


**Western Blot**

Positive WB detected in: HeLa whole cell lysate, HL60 whole cell lysate, A549 whole cell lysate, Mouse kidney tissue

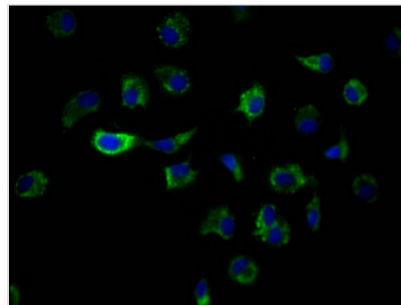
All lanes: ILK antibody at 1:2000

Secondary

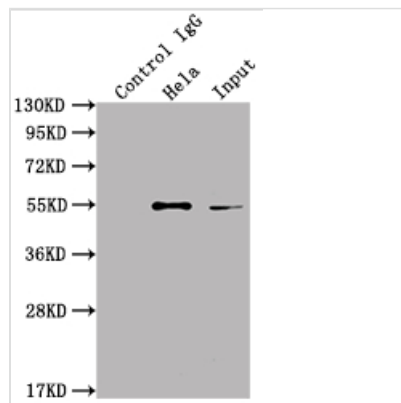
Goat polyclonal to rabbit IgG at 1/50000 dilution

Predicted band size: 52, 45, 37 kDa

Observed band size: 51 kDa



Immunofluorescence staining of MCF7 Cells with CSB-RA963626A0HU at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).



Immunoprecipitating ILK in HeLa whole cell lysate

Lane 1: Rabbit control IgG instead of CSB-RA963626A0HU in HeLa whole cell lysate. For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/2000)

Lane 2: CSB-RA963626A0HU(2µg)+ HeLa whole cell lysate(500µg)

Lane 3: HeLa whole cell lysate (10µg)

## Description

The production of the recombinant ILK antibody depended on Single B Cell technology. There are 3 main steps in the production: 1, Isolation of single B cells. High-throughput methods could be used to obtain the efficient identification and desired specificity of B cells. 2, Single B cell antibody sequencing and cloning. In this step, the antibody gene sequence of ILK was obtained and introduced to plasmids, which then would be transferred to mammalian cells for in vitro expression of the ILK antibody. 3, Screening of antibodies. The target antibody was obtained in this step. And it has been validated in ELISA, WB, IF, IP.

ILK has a key role in integrin adhesion assembly and sub-structure, and in the regulation of the focal adhesion (FA)-associated cytoskeleton. It also participates in the regulation of cell survival, cell proliferation, cell-cell adhesion, apoptosis, angiogenesis, migration, and invasion. ILK has been linked to colon inflammation and tumorigenesis as a molecular driver and mediator. ILK is an



adapter and mediator protein that connects the extracellular matrix to downstream signaling pathways such as PKB/Akt, GSK3 $\beta$ , and NF- $\kappa$ B pathways. ILK overexpression has been discovered in a variety of malignancies, including colorectal cancer (CRC).