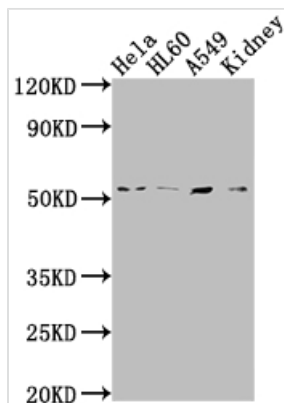




ILK Recombinant Monoclonal Antibody

Product Code	CSB-RA963626A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q13418
Immunogen	A synthesized peptide derived from human ILK
Species Reactivity	Human, Mouse
Tested Applications	ELISA, WB, IF, IP; Recommended dilution: WB:1:500-1:5000, IF:1:20-1:200, IP:1:200-1:1000
Relevance	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).
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Signal transduction
Gene Names	ILK
Clone No.	6A5
Image	



Western Blot

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

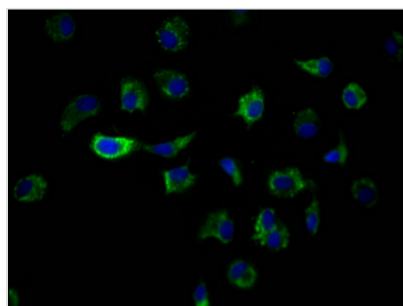
All lanes: ILK antibody at 1:2000

Secondary

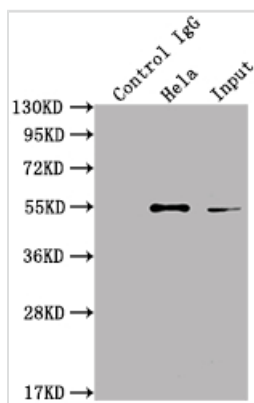
Goat polyclonal to rabbit IgG at 1/50000 dilution

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?. 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 ILK recombinant monoclonal antibody is generated using protein technology and DNA recombinant technology. In the first step, a synthesized peptide derived from human ILK is used to immunize mice. After a certain period, the spleen is removed under sterile conditions for total RNA extraction. The cDNA synthesized through RNA reverse transcription serves as a template for PCR amplification of the ILK antibody gene. The obtained ILK antibody gene is then inserted into a vector, which is transfected into host cells for culture. The ILK recombinant monoclonal antibody is purified from the cell culture supernatant using affinity chromatography. It undergoes rigorous verification and can be used in ELISA, WB, IF, and IP experiments for detecting human and mouse ILK protein.

Integrin-linked protein kinase (ILK) is a serine/threonine protein kinase that interacts with the cytoplasmic tails of integrins and other proteins, such as PINCH and Parvin, to form the ILK-PINCH-Parvin (IPP) complex, which plays an important role in the regulation of cell adhesion, migration, proliferation, and



survival. ILK also acts as a key signaling hub that integrates extracellular signals from the ECM and other signaling pathways to regulate various cellular processes, including cell adhesion, migration, proliferation, and survival.