

KD-Validated Anti-Integrin Linked Kinase Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1314**Specification****KD-Validated Anti-Integrin Linked Kinase Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	Q13418
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 51 kDa; observed, 48 kDa KDa
Gene Name	ILK
Aliases	ILK; Integrin Linked Kinase; 59 KDa Serine/Threonine-Protein Kinase; Integrin-Linked Protein Kinase; Beta-Integrin-Linked Kinase; P59ILK; ILK-1; ILK-2; Epididymis Secretory Protein Li 28; Integrin-Linked Kinase-2; Integrin-Linked Kinase; EC 2.7.11.1; HEL-S-28; ILK1; ILK2; P59
Immunogen	A synthesized peptide derived from human ILK

KD-Validated Anti-Integrin Linked Kinase Rabbit Monoclonal Antibody - Additional InformationGene ID **3611****Other Names**

Scaffold protein ILK, ILK-1, ILK-2, Inactive integrin-linked kinase, p59ILK, ILK (http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=6040)
target="_blank">HGNC:6040)

KD-Validated Anti-Integrin Linked Kinase Rabbit Monoclonal Antibody - Protein Information**Name** ILK ([HGNC:6040](#))**Function**

Scaffold protein which mediates protein-protein interactions during a range of cellular events including focal adhesion assembly, cell adhesion and cell migration (PubMed:[17420447](http://www.uniprot.org/citations/17420447), PubMed:[20005845](http://www.uniprot.org/citations/20005845), PubMed:[30367047](http://www.uniprot.org/citations/30367047), PubMed:[32528174](http://www.uniprot.org/citations/32528174)). Regulates integrin-mediated signal transduction by contributing to inside-out integrin activation (By similarity). Recruits PARVA and LIMS1/PITCH to form the heterotrimeric IPP (ILK-PINCH-PARVIN)

complex which binds to F-actin via the C-terminal tail of LIMS1 and the N-terminal region of PARVA, promoting F-actin filament bundling, a process required to generate force for actin cytoskeleton reorganization and subsequent dynamic cell adhesion events such as cell spreading and migration (PubMed: [30367047](http://www.uniprot.org/citations/30367047)). Binding to PARVA promotes effective assembly of ILK into focal adhesions while PARVA-bound ILK can simultaneously engage integrin-beta cytoplasmic tails to mediate cell adhesion (PubMed: [20005845](http://www.uniprot.org/citations/20005845)). Plays a role with PARVG in promoting the cell adhesion and spreading of leukocytes (PubMed: [16517730](http://www.uniprot.org/citations/16517730)). Acts as an upstream effector of both AKT1/PKB and GSK3 (PubMed: [9736715](http://www.uniprot.org/citations/9736715)). Mediates trafficking of caveolae to the cell surface in an ITGB1-dependent manner by promoting the recruitment of IQGAP1 to the cell cortex which cooperates with its effector DIAPH1 to locally stabilize microtubules and allow stable insertion of caveolae into the plasma membrane (By similarity). Required for the maintenance of mitotic spindle integrity by promoting phosphorylation of TACC3 by AURKA (PubMed: [18283114](http://www.uniprot.org/citations/18283114)). Associates with chromatin and may act as a negative regulator of transcription when located in the nucleus (PubMed: [17420447](http://www.uniprot.org/citations/17420447)).

Cellular Location

Cell junction, focal adhesion. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection, lamellipodium {ECO:0000250|UniProtKB:O55222}. Cytoplasm, myofibril, sarcomere. Cytoplasm Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cell cortex {ECO:0000250|UniProtKB:O55222}

Tissue Location

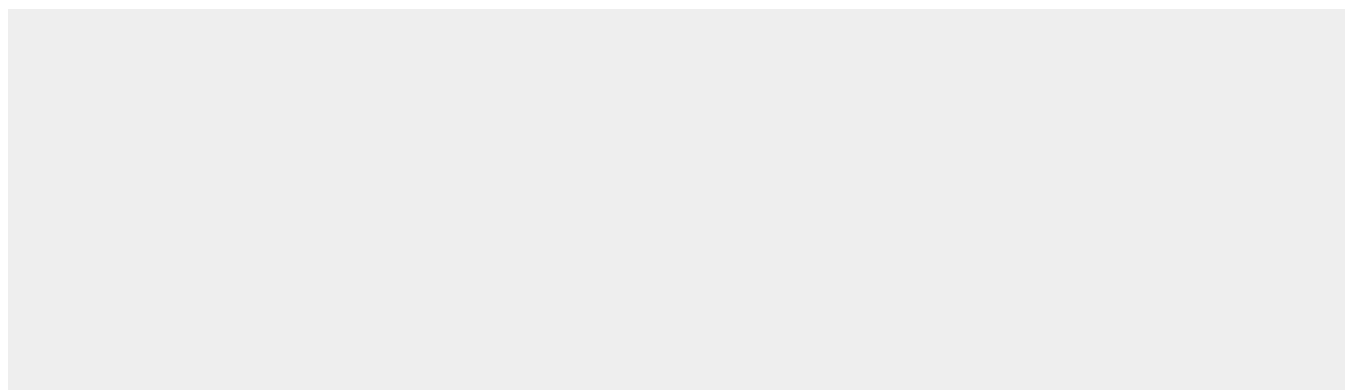
Highly expressed in heart followed by skeletal muscle, pancreas and kidney. Weakly expressed in placenta, lung and liver

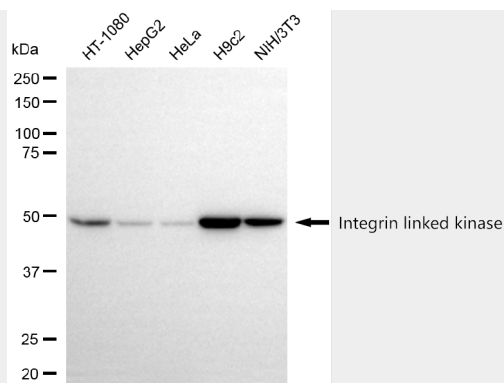
KD-Validated Anti-Integrin Linked Kinase Rabbit Monoclonal Antibody - Protocols

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](#)

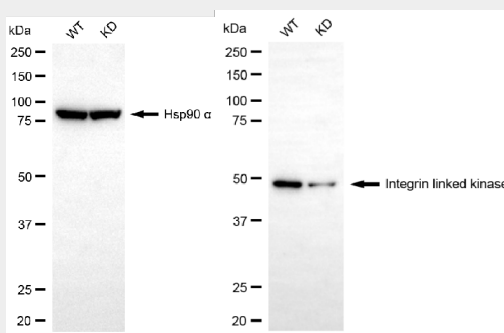
KD-Validated Anti-Integrin Linked Kinase Rabbit Monoclonal Antibody - Images





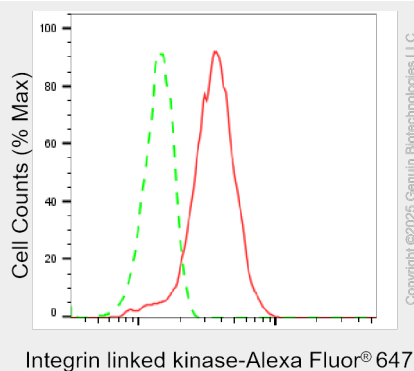
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Western blotting analysis using anti-integrin linked kinase antibody (Cat#AGI1314). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-integrin linked kinase antibody (Cat#AGI1314, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



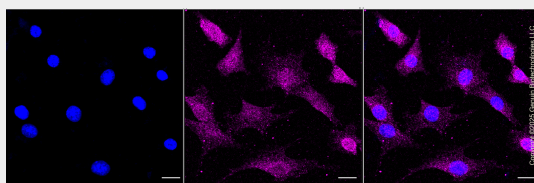
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Western blotting analysis using anti-integrin linked kinase antibody (Cat#AGI1314). Integrin linked kinase expression in wild-type (WT) and integrin linked kinase (DAG1) knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-integrin linked kinase antibody (Cat#AGI1314, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Flow cytometric analysis of Integrin linked kinase expression in C2C12 cells using anti-Integrin linked kinase antibody (Cat#AGI1314, 1:2,000). Green, isotype control; red, Integrin linked kinase.



Immunocytochemical staining of C2C12 cells with anti-Integrin linked kinase antibody

(Cat#AGI1314, 1:1,000). Nuclei were stained blue with DAPI; Integrin linked kinase was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 μ m.