

# Anti-Integrin linked ILK Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

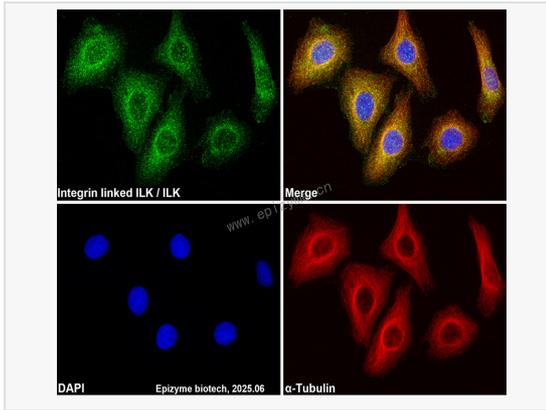
Catalog # R015581

## Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	72M58K81
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human ILK
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-Integrin linked ILK Rabbit mAb [72M58K81] is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

Synonyms	59 kDa serine/threonine protein kinase; 59 kDa serine/threonine-protein kinase; DKFZp686F1765; Epididymis secretory protein Li 28; HEL S 28; ILK 1; ILK 2; ILK; ILK-1; ILK-2; ILK_HUMAN; ILK1; ILK2; Integrin linked kinase 2; Integrin linked Kinase; Integrin linked protein kinase; Integrin-linked protein kinase; p59; p59ILK.
Calculated MW	Calculated MW: 51 kDa; Observed MW: 51 kDa
Uniprot ID	Q13418
Gene ID	3611
Background	This gene encodes a protein with a kinase-like domain and four ankyrin-like repeats. The encoded protein associates at the cell membrane with the cytoplasmic domain of beta integrins, where it regulates integrin-mediated signal transduction. Activity of this protein is important in the epithelial to mesenchymal transition, and over-expression of this gene is implicated in tumor growth and metastasis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013]
Cellular Location	Cell junction > focal adhesion. Cell membrane.
Tissue Location	Highly expressed in heart followed by skeletal muscle, pancreas and kidney. Weakly expressed in placenta, lung and liver.



Immunofluorescence - Anti-Integrin linked ILK Rabbit mAb [72M58K81]

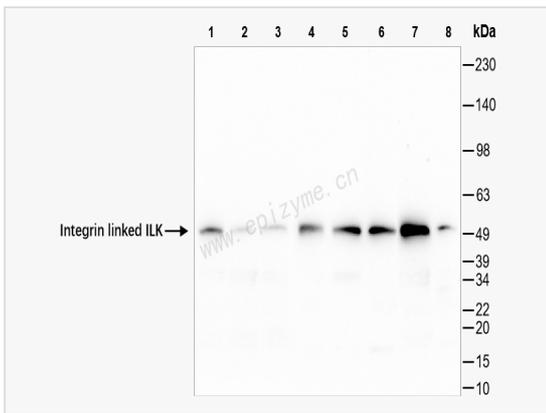
Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R015581 at 1:100 dilution and  $\alpha$ -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Western Blot - Anti-Integrin linked ILK Rabbit mAb [72M58K81]

All lanes: R015581 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: U87 (Human malignant glioblastoma epithelial cells) whole cell lysates

Lane 5: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 6: Mouse heart whole tissue lysates

Lane 7: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates

Lane 8: Rat liver whole tissue lysates

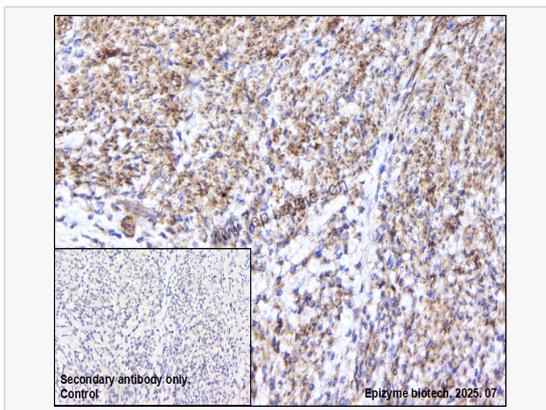
Lysates/proteins at 10  $\mu$ g per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 51 kDa

Observed band size: 51 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Integrin linked ILK Rabbit mAb [72M58K81]

Sample: Paraformaldehyde-fixed, paraffin embedded human endometrial carcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R015581 at 1:200 dilution

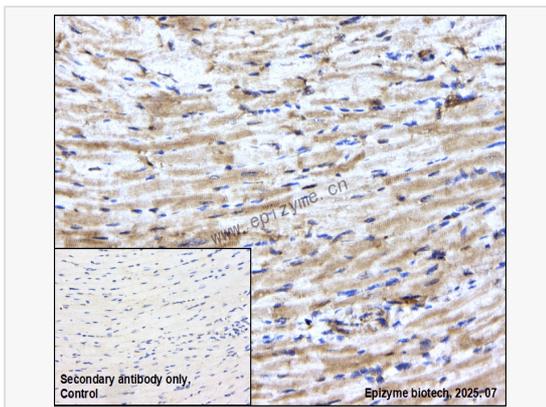
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-Integrin linked ILK Rabbit mAb [72M58K81]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse heart tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R015581 at 1:200 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.