

# Anti-ILK, clone 6G6.3

Monoclonal Antibody

Cat. # 05-1051

Lot # DAM1606784

pack size: 100 µg

Store at -2-8°C

FOR RESEARCH USE ONLY  
NOT FOR USE IN HUMANS



## Certificate of Analysis

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Applications	Species Cross-Reactivity	Antibody Isotype	Epitope/Region	Host Species	Molecular Weight	Accession #
WB (not IP)	H, M	IgG3κ	Full-Length	M	51 kDa	NP_004508

### Background

ILK (Integrin-Linked Kinase) is an intracellular Ser/Thr kinase with four Ankyrin-like repeats. It is known to play pivotal roles in extracellular matrix mediated signaling. ILK is known to associate with  $\beta$ -Integrins in addition to many other focal adhesion associated proteins. In this context, ILK is involved cell adhesion/migration. The kinase activity appears to be reduced following Integrin activation, and overexpression of p59ILK inhibits cellular adhesion to Integrin substrates. Additionally, ILK has been associated with epithelial mesenchymal transition (EMT) in a TGF- $\beta$ 1 induced Smad dependent manner (Li, 2003). Forced expression of ILK also induced the expression of MMP-2 (matrix metalloproteinase 2) and promoted cell migration and invasion (Li, 2003).

### Presentation

Protein G purified mouse monoclonal in storage buffer containing 0.1M Tris-Glycine, pH7.4, 15 mM NaCl, and 0.05% NaN<sub>3</sub>.

### Concentration

1 mg/mL

### Specificity

Recognizes ILK

### Species Cross-reactivity

Human and Mouse

### Immunogen

Full length recombinant GST-tagged human ILK.

### Molecular Weight

51 kDa

### Method of Purification

Protein G purified

### Storage and Handling

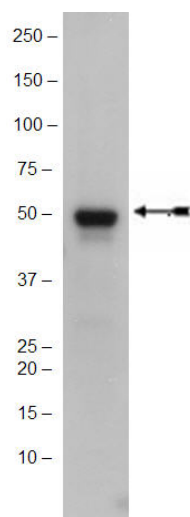
Stable for 1 year at 2-8°C from date of receipt.

Handling Recommendations: Upon receipt, and prior to removing the cap, centrifuge the vial and gently mix the solution. Aliquot into microcentrifuge tubes and store at -20°C. Avoid repeated freeze/thaw cycles, which may damage IgG and affect product performance.

### Quality Control Testing

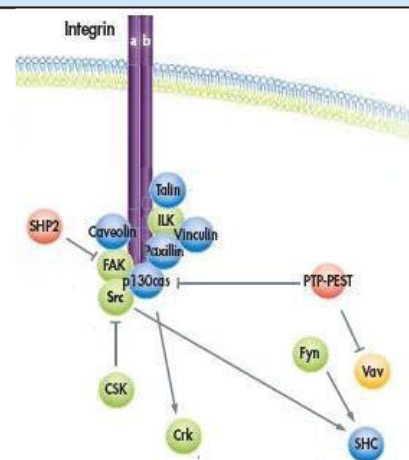
#### Western Blot Analysis:

This lot detected ILK at a 1:1,000 dilution in 3T3/A31 and HEK 293 cell lysates resolved via SDS-PAGE and transferred to PVDF (Immobilon-P).



#### Western Blot Analysis:

Representative lot data  
HEK 293 lysate was resolved by SDS-PAGE, transferred to PVDF, and probed with anti-ILK, clone 6G6.3 (1:1,000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and a chemiluminescence detection system. Arrow indicates ILK.



### References

- Wong, RP. Et al. (2007) *Mol. Cancer Ther.*, 6(6):1692-1700.
- Li, Y. et al. (2003) *JCI*, 112(4):503-516.

**APPLICATION LEGEND:** WB Western Blotting IP Immunoprecipitation IF Immunofluorescence

IH Immunohistochemistry (Tissue) IH(P) Immunohistochemistry (Paraffin)

**SPECIES LEGEND:** H Human M Mouse R Rat Rb Rabbit Mk Monkey

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**PROTOCOLS****Western Blot Protocol**

1. Perform SDS-polyacrylamide gel electrophoresis (SDS-PAGE) on a cell lysate sample (cell lysis buffer: 50 mM Tris-HCl, pH 7.4; 1% NP-40; 0.25% sodium deoxycholate; 150 mM NaCl; 1 mM EDTA; 1 mM PMSF; 1 µg/mL each aprotinin, leupeptin, pepstatin; 1 mM Na<sub>3</sub>VO<sub>4</sub>; 1 mM NaF) and transfer the proteins to PVDF (Immobilon-P). Wash the blotted PVDF (Immobilon-P) twice with Tris/0.05% Tween.
2. Block the blotted PVDF in freshly prepared TBST containing 5% nonfat dry milk (Catalog # 20-200), for 0.5 hour at room temperature with constant agitation.
3. Incubate the PVDF with 1:1,000 of anti-ILK, clone 6G6, diluted in freshly prepared TBST-MILK at room temperature for 2 hours at room temperature (or alternately overnight at 4°C) with agitation.
4. Wash the PVDF 4 times with TBST for 3-5 minutes each.
5. Incubate the PVDF in the secondary reagent of choice (goat anti-mouse HRP conjugated IgG (H+L), Catalog # AP124P) in TBST-MILK for 1 hour at room temperature with agitation.
7. Wash the PVDF 4 times in TBST for 3-5 minutes each wash.
9. Use detection method of choice (enhanced chemiluminescence was used).

**RELATED PRODUCTS (specific)**

cat #	description
21-185	■ <i>ILK</i> cDNA (hyperactive) in pUSEamp
21-182	■ <i>ILK</i> cDNA (inactive, R211A) in pUSEamp
MAB1144	■ Anti-Focal Adhesion Kinase, phospho-specific (Tyr397)
04-591	■ Anti-FAK, Rabbit Monoclonal, clone EP695Y
06-543	■ Anti-FAK
05-537	■ Anti-FAK, clone 4.47
07-909	■ Anti-phospho-Src (Tyr418)
05-184	■ Anti-Src, clone GD11
05-677	■ Anti-phospho-Src (Tyr416), clone 9A6
05-772	■ Anti-Src, CT, clone NL19

**RELATED PRODUCTS (non-specific)**

cat #	description
IPVH00010	■ Immobilon-P 26.5 cm x 3.75 m Roll PVDF 0.45 µm
IPFL00010	■ Immobilon-FL 26.5 cm x 3.75 m Roll PVDF 0.45 µm
IPVH07850	■ Immobilon-P 7 x 8.4 cm PVDF 0.45 mm (sheet) 50/pk
ISEQ00010	■ Immobilon-P SQ 26.5 cm x 3.75 m 1 roll PVDF 0.2 µm
ISEQ07850	■ Immobilon-P 7 x 8.4 cm PVDF 0.2 mm (sheet) 50/pk
IPFL07810	■ Immobilon-FL 7 x 8.4 cm PVDF 0.45 mm (sheet) 10/pk
WBKLS0100	■ Immobilon Western Chemilum HRP Substrate 100 mL
17-373	■ Spray & Glow™ ECL WB Detection System 1 ea
2060	■ Re-Blot Western Blot Recycling Kit
2500	■ Re-Blot Plus Western Blot Recycling Kit

■ antibodies ■ Multiplex products ■ biotools ■ cell culture ■ enzymes ■ kits ■ proteins/peptides ■ siRNA/cDNA products

Please visit [www.millipore.com](http://www.millipore.com) for additional product information, test data and references

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