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## Summary

|                        |                                |
|------------------------|--------------------------------|
| <b>Production Name</b> | ILK Rabbit Polyclonal Antibody |
| <b>Description</b>     | Rabbit Polyclonal Antibody     |
| <b>Host</b>            | Rabbit                         |
| <b>Application</b>     | WB,IHC,IF,ELISA                |
| <b>Reactivity</b>      | Human,Mouse,Rat                |

## Performance

|                     |  |
|---------------------|--|
| <b>Conjugation</b>  | Unconjugated   |
| <b>Modification</b> | Unmodified   |
| <b>Isotype</b>      | IgG  |
| <b>Clonality</b>    | Polyclonal   |
| <b>Form</b>         | Liquid   |
| <b>Storage</b>      | Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles. |
| <b>Buffer</b>       | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.       |
| <b>Purification</b> | Affinity purification  |

## Immunogen

|                          |   |
|--------------------------|---|
| <b>Gene Name</b>         | ILK   |
| <b>Alternative Names</b> | ILK; ILK1; ILK2; Integrin-linked protein kinase; 59 kDa serine/threonine-protein kinase; ILK-1; ILK-2; p59ILK |
| <b>Gene ID</b>           | 3611.0  |
| <b>SwissProt ID</b>      | Q13418.The antiserum was produced against synthesized peptide derived from human ILK. AA range:212-261        |

## Application

|                         |   |
|-------------------------|---|
| <b>Dilution Ratio</b>   | WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:5000.. IF 1:50-200 |
| <b>Molecular Weight</b> | 42kD  |

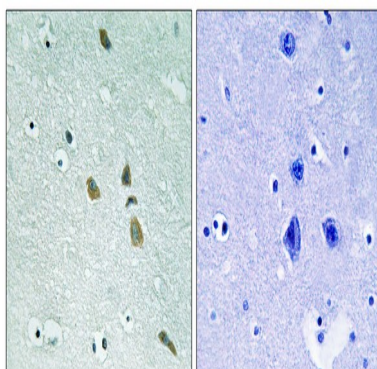
## Background

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],catalytic activity:ATP + a protein = ADP + a phosphoprotein.,domain:A PH-like domain is involved in phosphatidylinositol phosphate binding.,enzyme regulation:Stimulated rapidly but transiently by both cell fibronectin interactions, as well as by insulin, in a PI3-K-dependent manner, likely via the binding of PtdIns(3,4,5)P3 with a PH-like domain of ILK.,function:Receptor-proximal protein kinase regulating integrin-mediated signal transduction. 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.,PTM:Autophosphorylated on serine residues.,similarity:Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family.,similarity:Contains 1 protein kinase domain.,similarity:Contains 5 ANK repeats.,subunit:Interacts with cytoplasmic domain of beta 1 subunit of integrin. Could also interact with beta 2, beta 3 and/or beta 5 subunit of integrin. Interacts (via ANK repeats) with LIMS1 and LIMS2. Interacts with parvins and probably TGFBI1.,tissue specificity:Highly expressed in heart followed by skeletal muscle, pancreas and kidney. Weakly expressed in placenta, lung and liver.,

## Research Area

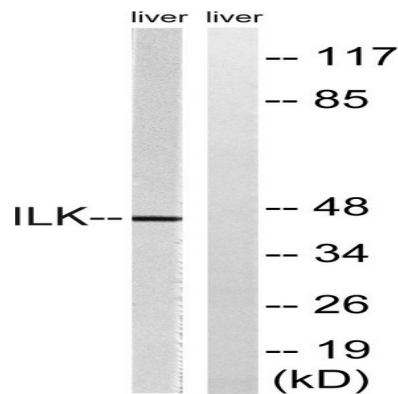
PPAR;Focal adhesion;Endometrial cancer;

## Image Data

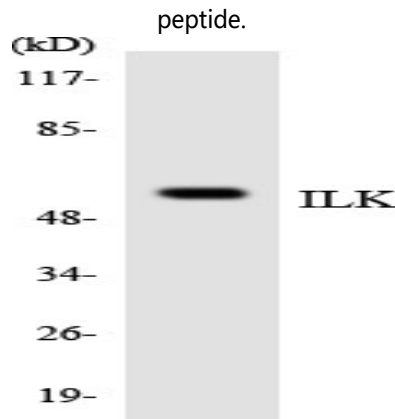


Immunohistochemistry analysis of paraffin-embedded human brain tissue, using ILK Antibody. The picture on the right is blocked with the synthesized peptide.

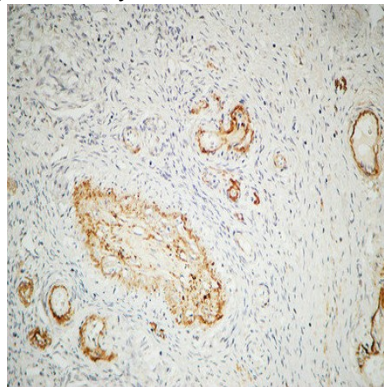
**Product Name: ILK Rabbit Polyclonal Antibody**  
**Catalog #: APRab12579**



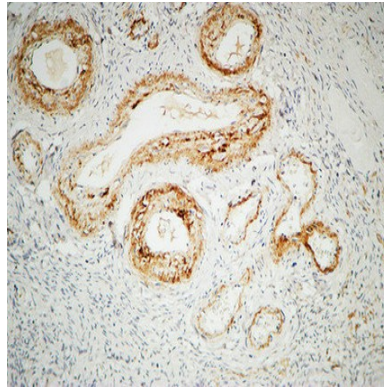
Western blot analysis of lysates from rat liver cells, using ILK Antibody. The lane on the right is blocked with the synthesized peptide.



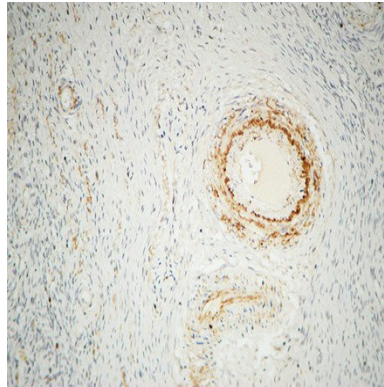
Western blot analysis of the lysates from HUVEC cells using ILK antibody.



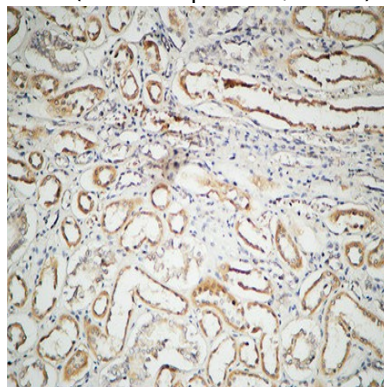
Immunohistochemical analysis of paraffin-embedded Human ovary. 1, Antibody was diluted at 1:200 (4°, overnight) . 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 30min) .



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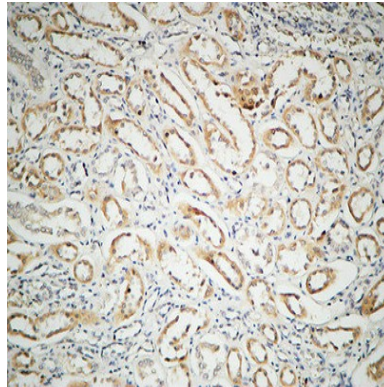


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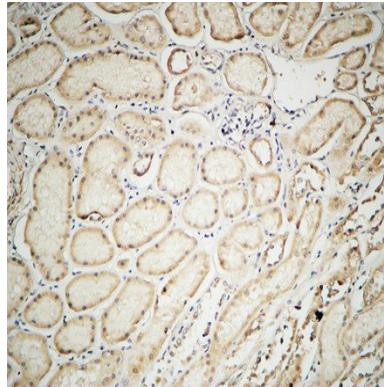


Immunohistochemical analysis of paraffin-embedded Human kidney. 1, Antibody was diluted at 1:100 (4°,overnight) . 2, High-pressure and temperature EDTA, pH8.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200 (room temperature, 30min) .

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## **Note**

For research use only.