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Goat Anti-ILK (Restricted sale due to demands of patent holder) Antibody

Peptide-affinity purified goat antibody
Catalog # AF4126a

Specification

Goat Anti-ILK (Restricted sale due to demands of patent holder) Antibody - Product Information

Application	**WB**
Primary Accession	Q13418
Other Accession	NP_004508.1, NP_001014794.1, NP_001014795.1, 3611
Reactivity	**Human, Mouse**
Predicted	**Rat, Dog, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**51419**

Goat Anti-ILK (Restricted sale due to demands of patent holder) Antibody - Additional Information

Gene ID 3611

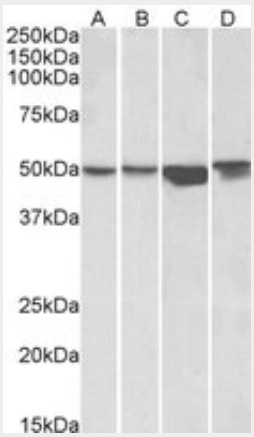
Other Names
Integrin-linked protein kinase, 2.7.11.1, 59 kDa serine/threonine-protein kinase, ILK-1, ILK-2, p59ILK, ILK, ILK1, ILK2

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat Anti-ILK (Restricted sale due to demands of patent holder) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-ILK (Restricted sale due to demands of patent holder) Antibody - Protein Information



AF4126a (1 µg/ml) staining of HEK293 (A), A431 (B), HeLa (C) and Jurkat (D) lysates (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

EB05120 (0.5 µg/ml) staining of NIH3T3 lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-ILK (Restricted sale due to demands of patent holder) Antibody - Background

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

Name ILK (HGNC:6040)

Function
Receptor-proximal protein kinase regulating integrin-mediated signal transduction (PubMed:8538749, PubMed:9736715). May act as a mediator of inside-out integrin signaling (PubMed:10712922). Focal adhesion protein part of the complex ILK-PINCH (PubMed:10712922). This complex is considered to be one of the convergence points of integrin- and growth factor-signaling pathway (PubMed:10712922). Could be implicated in mediating cell architecture, adhesion to integrin substrates and anchorage-dependent growth in epithelial cells (PubMed:10712922). Regulates cell motility by forming a complex with PARVB (PubMed:32528174). Phosphorylates beta-1 and beta-3 integrin subunit on serine and threonine residues, but also AKT1 and GSK3B (PubMed:8538749, PubMed:9736715).

Cellular Location
Cell junction, focal adhesion. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell projection, lamellipodium {ECO:0000250|UniProtKB:O55222}. Cytoplasm, myofibril, sarcomere

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

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.

Goat Anti-ILK (Restricted sale due to demands of patent holder) Antibody - References

Hannigan G.E.,et al.Nature 379:91-96(1996).
Janji B.,et al.Oncogene 19:3069-3077(2000).
Tadic B.,et al.Submitted (MAR-2000) to the EMBL/GenBank/DDBJ databases.
Melchior C.,et al.Submitted (JUL-2000) to the EMBL/GenBank/DDBJ databases.
Ebert L.,et al.Submitted (MAY-2004) to the EMBL/GenBank/DDBJ databases.

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Goat Anti-ILK (Restricted sale due to demands of patent holder) 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 Cytomety
- Cell Culture