

Rabbit ILK Polyclonal Antibody | anti-ILK antibody

Phospho-ILK (Ser343) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329663	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (89%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (89%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

ILK; Polyclonal Antibody; Phospho-ILK (Ser343) Antibody; 59kDa serine/threonine protein kinase; 59kDa serine/threonine-protein kinase; DKFZp686F1765; Epididymis secretory protein Li 28; HEL S 28; ILK 1; ILK 2; 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; anti-ILK antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (89%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (89%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-ILK (Ser343) Antibody detects endogenous levels of ILK only when phosphorylated at Ser343. Tissue Specificity: Highly expressed in heart followed by skeletal muscle, pancreas and kidney. Weakly expressed in placenta, lung and liver.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-ILK antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ILK around the phosphorylation site of Ser343.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Autophosphorylated on serine residues.
Subunit Structure	Interacts with FERMT2 (By similarity). Interacts with the cytoplasmic domain of ITGB1. Could also interact with integrin ITGB2, ITGB3 and/or ITGB5. Interacts (via ANK repeats) with LIMS1 and LIMS2. Interacts with PARVA and PARVB; these compete for the same binding site. Interacts probably also with TGFBI1. Interacts (via ANK repeats) with EPHA1 (via SAM domain); stimulated by EFNA1 but independent of the kinase activity of EPHA1. Interacts with LIMD2; leading to activate the protein kinase activity.
Similarity	A PH-like domain is involved in phosphatidylinositol phosphate binding. Belongs to the protein kinase superfamily. TKL Ser/Thr protein kinase family.
Subcellular Location	Cell junction>Focal adhesion. Cell membrane>Peripheral membrane protein>Cytoplasmic side. Cell projection>Lamellipodium. Cytoplasm>Myofibril>Sarcomere.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
At 1/200 staining Human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/200 staining Mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/200 staining Rat kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis ILK-1 (Phospho-Ser343) using EGF treated A431 whole cell lysates. -/+ means absence or presence of N peptide(¼ non-phospho peptide) and P peptide(phospho peptide).



WB (Western Blot)
Western blot analysis of extracts from Mouse heart, using Phospho-ILK-1 (Ser343) Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-ILK antibody	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.
---	--

NCBI AND UNIPROT INFORMATION

NCBI GI #	62420873
NCBI GeneID	3611
NCBI Accession #	NP_001014794.1
NCBI GenBank Nucleotide #	NM_001014794.2
UniProt Accession #	Q13418; P57043; Q68DZ3; D3DQU0
Molecular Weight	51,419 Da
NCBI Official Full Name	integrin-linked protein kinase isoform 1
NCBI Official Synonym Full Names	integrin-linked kinase
NCBI Official Symbol	ILK
NCBI Official Synonym Symbols	P59; ILK-1; ILK-2; p59ILK
NCBI Protein Information	integrin-linked protein kinase; integrin-linked kinase-2; 59 kDa serine/threonine-protein kinase
UniProt Protein Name	Integrin-linked protein kinase
UniProt Gene Name	ILK

UniProt Synonym Gene Names	ILK1; ILK2
UniProt Entry Name	ILK_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/ilk-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329663>