

Product name:	ILK-1 (Phospho-Ser343) Rabbit Polyclonal Antibody
Cat number:	ABN05780
Conjugate:	Unconjugated
Size:	100µL
Clone:	Polyclonal
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	Synthesized peptide derived from human ILK-1 (Phospho-Ser343)
Reactivity:	Human, Mouse, Rat
Applications:	WB 1:500-1:2000
Molecular Weight:	50kDa
Purification:	Affinity purification
Form:	Liquid
Buffer:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Storage:	Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.

Background:

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 interacts 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 TGFB1I1.,tissue specificity:Highly expressed in heart followed by skeletal muscle, pancreas and kidney. Weakly expressed in placenta, lung and liver.,