

ILK polyclonal antibody

Catalog: BS90713

Host: Rabbit

Reactivity: Human, Mouse, Rat

Background:

Integrins are heterodimers composed of non-covalently associated transmembrane α and β subunits. The $\alpha 16$ and $\beta 8$ subunits heterodimerize to produce more than 20 different receptors. Most integrin receptors bind to ligands that are components of the extracellular matrix. Certain integrins can also bind to soluble ligands such as Fibrinogen, or to counterreceptors on adjacent cells, such as the intracellular adhesion molecules (ICAMs), leading to aggregation of cells. In addition to mediating cell adhesion and cytoskeletal organization, integrins function as signaling receptors. Signals transduced by integrins play a role in many biological processes, including cell growth, differentiation, migration and apoptosis. ILK (integrin-linked kinase) was identified as a serine/threonine kinase that phosphorylates $\beta 1$ and $\beta 3$ integrins. ILK expression has been shown to be reduced in response to Fibronectin, a known integrin ligand. Overexpression of ILK was shown to upregulate the Fibronectin matrix assembly in epithelial cells, indicating a potential role for ILK in cell growth, cell survival and tumorigenesis.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

51 kDa

Swiss-Prot:

Q13418 Human; O55222 Mouse; Q99J82 Rat

Purification&Purity:

Protein affinity purified.

Applications:

WB:1:500

ICC:1:50-1:200

IHC:1:50-1:200

Storage&Stability:

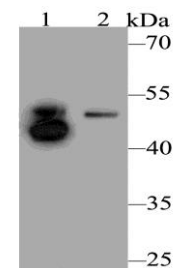
Store at +4 °C after thawing. Aliquot store at -20 °C.

Avoid repeated freeze / thaw cycles.

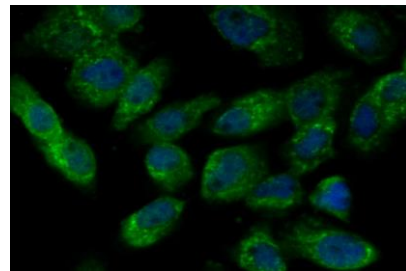
Specificity:

ILK polyclonal antibody detects endogenous levels of ILK protein.

DATA:



Western blot analysis of Integrin linked ILK on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody was used at a 1:500 dilution in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:5,000 dilution was used for 1 hour at room temperature. Positive control: Lane 1: Mouse skeletal muscle tissue lysate Lane 2: Rat lung tissue lysate



ICC staining Integrin linked ILK in A431 cells (green). Formalin fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 10 minutes at room temperature and blocked with 1% Blocker BSA for 15 minutes at room temperature. Cells were probed with Integrin linked ILK polyclonal antibody at a dilution of 1:100 for 1 hour at room temperature, washed with PBS. Alexa Fluor 488 Goat anti-Rabbit IgG was used as the secondary antibody at 1/100 dilution. The nuclear counterstain is DAPI (blue).

Note:

For research use only, not for use in diagnostic procedure.

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