BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Integrin linked ILK Antibody Picoband®

Catalog Number: A02932-2

About ILK

ILK, also known as Integrin-linked kinase, is a serine-threonine protein kinase. Transduction of extracellular matrix signals through integrins influences intracellular and extracellular functions, and appears to require interaction of integrin cytoplasmic domains with cellular proteins. Integrin-linked kinase (ILK) interacts with the cytoplasmic domain of beta-1 integrin. This gene was initially described to encode a serine/ threonine protein kinase with 4 ankyrin-like repeats, which associates with the cytoplasmic domain of beta integrins and acts as a proximal receptor kinase regulating integrin-mediated signal transduction. Multiple alternatively spliced transcript variants encoding the same protein have been found for this gene. Recent results showed that ILK contains 5 ankyrin-like repeats, and that the C-terminal kinase domain is actually a pseudo-kinase with adaptor function.

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Overview

Product Name	Anti-Integrin linked ILK Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Integrin linked ILK Antibody Picoband® catalog # A02932-2. Tested in ELISA, IF, IHC, ICC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, IF, IHC, ICC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4.
Storage Instructions	Store at -20˚C for one year from date of receipt. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q13418

Technical Details

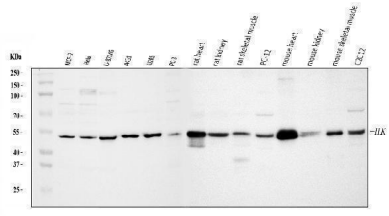
Immunogen	E.coli-derived human Integrin linked ILK recombinant protein (Position: R9-K452).

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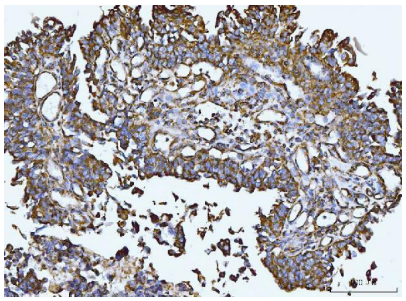
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P) and ICC.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.25ug/ml, Human, Mouse, Rat Immunohistochemistry(Paraffin-embedded Section), 1-2 ug/ml, Human Immunocytochemistry/Immunofluorescence, 5ug/ml, Human ELISA, 0.1-0.5ug/ml, -

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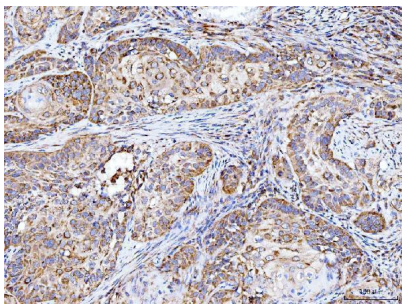
Anti-Integrin linked ILK Antibody Picoband® (A02932-2) Images



Western blot analysis of Integrin linked ILK using anti-Integrin linked ILK antibody (A02932-2). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human MCF-7 whole cell lysates, Lane 2: human Hela whole cell lysates, Lane 3: human U-87MG whhole cell lysates, Lane 4: human A431 whole cell lysates, Lane 5: human U20S whhole cell lysates, Lane 6: human PC-3 whhole cell lysates, Lane 7: rat heart tissue lysates, Lane 8: rat kidney tissue lysates, Lane 9: rat skeletal muscle tissue lysates, Lane 10: rat PC-12 whhole cell lysates, Lane 11: mouse heart tissue lysates, Lane 12: mouse kidney tissue lysates, Lane 13: mouse skeletal muscle tissue lysates, Lane 14: mouse C2C12 whhole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Integrin linked ILK antigen affinity purified polyclonal antibody (Catalog # A02932-2) at 0.25 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for Integrin linked ILK at approximately 51 kDa. The expected band size for Integrin linked ILK is at 51 kDa.



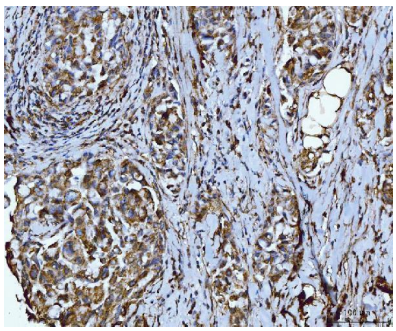
IHC analysis of Integrin linked ILK using anti-Integrin linked ILK antibody (A02932-2). Integrin linked ILK was detected in a paraffin-embedded section of human bladder epithelial carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Integrin linked ILK Antibody (A02932-2) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



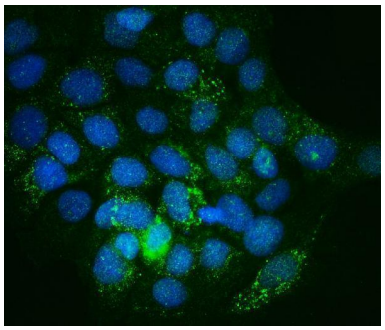
IHC analysis of Integrin linked ILK using anti-Integrin linked ILK antibody (A02932-2). Integrin linked ILK was detected in a paraffin-embedded section of human laryngeal squamous cell carcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Integrin linked ILK Antibody (A02932-2) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as

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secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



IHC analysis of Integrin linked ILK using anti-Integrin linked ILK antibody (A02932-2). Integrin linked ILK was detected in a paraffin-embedded section of human breast cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-Integrin linked ILK Antibody (A02932-2) overnight at 4°C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB as the chromogen.



IF analysis of Integrin linked ILK using anti-Integrin linked ILK antibody (A02932-2). Integrin linked ILK was detected in immunocytochemical section of A431 cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-Integrin linked ILK Antibody (A02932-2) overnight at 4°C. DyLight®488 Conjugated Goat Anti-Rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.

Anti-Integrin linked ILK Antibody

For Research Use Only. Not for use in diagnostic procedures.