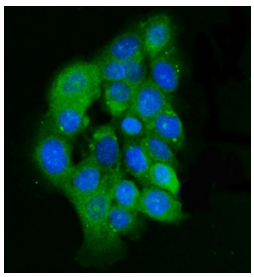
Integrin Linked Kinase Antibody / ILK (RQ6564)

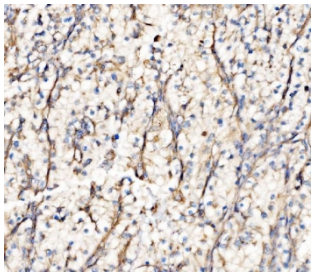
Catalog No.	Formulation	Size
RQ6564	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

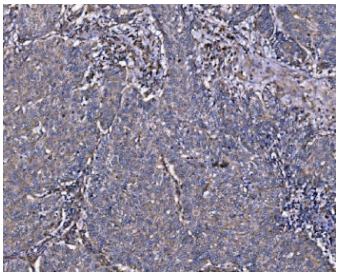
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q13418
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This Integrin Linked Kinase antibody is available for research use only.



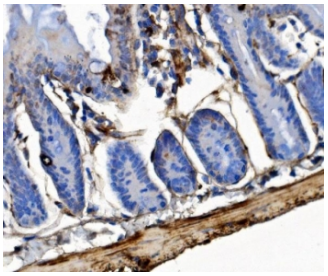
Immunofluorescent staining of FFPE human A431 cells with Integrin Linked Kinase antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



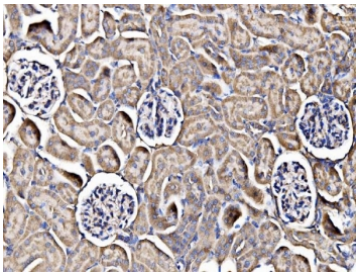
IHC staining of FFPE human renal clear cell carcinoma tissue with Integrin Linked Kinase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



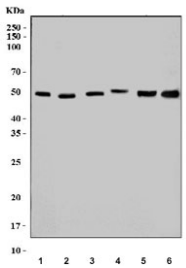
IHC staining of FFPE human lung cancer tissue with Integrin Linked Kinase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



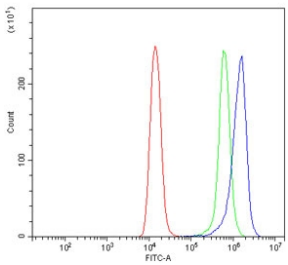
IHC staining of FFPE mouse colon tissue with Integrin Linked Kinase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



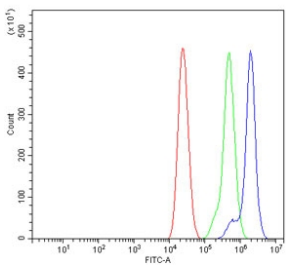
IHC staining of FFPE rat kidney tissue with Integrin Linked Kinase antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



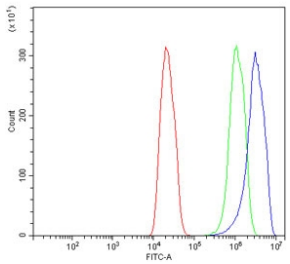
Western blot testing of 1) human HeLa, 2) human HEK293, 3) rat kidney, 4) rat spleen, 5) rat PC-12 and 6) mouse spleen lysate with Integrin Linked Kinase antibody. Expected molecular weight: 51-59 kDa.



Flow cytometry testing of human Raji cells with Integrin Linked Kinase antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Integrin Linked Kinase antibody.



Flow cytometry testing of mouse RAW264.7 cells with Integrin Linked Kinase antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Integrin Linked Kinase antibody.



Flow cytometry testing of rat C6 cells with Integrin Linked Kinase antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Integrin Linked Kinase antibody.

Description

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.

Application Notes

Optimal dilution of the Integrin Linked Kinase antibody should be determined by the researcher.

Immunogen

An E. coli-derived human protein (amino acids M1-K452) was used as the immunogen for the Integrin Linked Kinase antibody.

Storage

After reconstitution, the Integrin Linked Kinase antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.