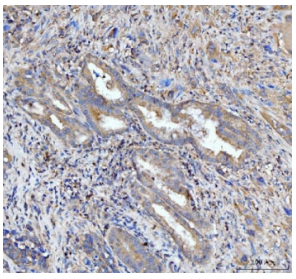
PDLIM7 Antibody (RQ6669)

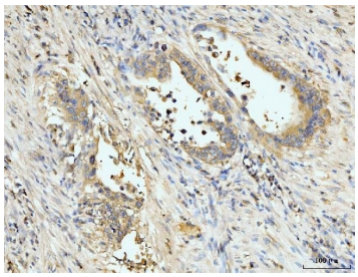
Catalog No.	Formulation	Size
RQ6669	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

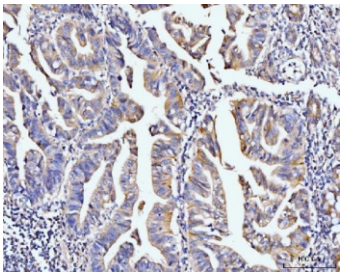
Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q9NR12
Localization	Cytoplasmic
Applications	Western blot: 1-2ug/ml Immunohistochemistry (FFPE): 2-5ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This PDLIM7 antibody is available for research use only.



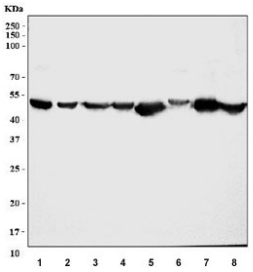
IHC staining of FFPE human gall bladder adenosquamous carcinoma tissue with PDLIM7 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



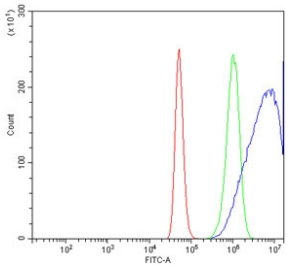
IHC staining of FFPE human appendiceal adenocarcinoma tissue with PDLIM7 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human gastric adenocarcinoma tissue with PDLIM7 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 SK-OV-3, 3) human K562, 4) human Raji, 5) rat skeletal muscle, 6) rat C6, 7) mouse skeletal muscle and 8) mouse RAW264.7 cell lysate with PDLIM7 antibody. Multiple isoforms with predicted molecular weights of 16-50 kDa.



Flow cytometry testing of human A431 cells with PDLIM7 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= PDLIM7 antibody.

Description

PDZ and LIM domain protein 7 is a protein that in humans is encoded by the PDLIM7 gene. The protein encoded by this gene is representative of a family of proteins composed of conserved PDZ and LIM domains. LIM domains are proposed to function in protein-protein recognition in a variety of contexts including gene transcription and development and in cytoskeletal interaction. The LIM domains of this protein bind to protein kinases, whereas the PDZ domain binds to actin filaments. The gene product is involved in the assembly of an actin filament-associated complex essential for transmission of ret/ptc2 mitogenic signaling. The biological function is likely to be that of an adapter, with the PDZ domain localizing the LIM-binding proteins to actin filaments of both skeletal muscle and nonmuscle tissues. Alternative splicing of this gene results in multiple transcript variants.

Application Notes

Optimal dilution of the PDLIM7 antibody should be determined by the researcher.

Immunogen

Recombinant human protein (amino acids N275-V457) was used as the immunogen for the PDLIM7 antibody.

Storage

After reconstitution, the PDLIM7 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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