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ILKAP Antibody(Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19399c

Product Information

Application	WB, E
Primary Accession	Q9H0C8
Other Accession	Q9Z1Z6, Q8R0F6, Q0IIF0, NP_110395.1
Reactivity	Human
Predicted	Bovine, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB40435
Calculated MW	42907
Antigen Region	93-122

Additional Information

Gene ID	80895
Other Names	Integrin-linked kinase-associated serine/threonine phosphatase 2C, ILKAP, ILKAP
Target/Specificity	This ILKAP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 93-122 amino acids from the Central region of human ILKAP.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ILKAP Antibody(Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ILKAP
Function	Protein phosphatase that may play a role in regulation of cell cycle progression via dephosphorylation of its substrates whose appropriate

	phosphorylation states might be crucial for cell proliferation. Selectively associates with integrin linked kinase (ILK), to modulate cell adhesion and growth factor signaling. Inhibits the ILK-GSK3B signaling axis and may play an important role in inhibiting oncogenic transformation.
Cellular Location	Cytoplasm.
Tissue Location	Widely expressed. Highest levels expressed in striated muscle. Much lower levels evident in various smooth muscle tissues.

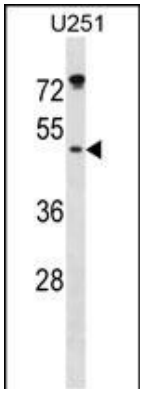
Background

The protein encoded by this gene is a protein serine/threonine phosphatase of the PP2C family. This protein can interact with integrin-linked kinase (ILK/ILK1), a regulator of integrin mediated signaling, and regulate the kinase activity of ILK. Through the interaction with ILK, this protein may selectively affect the signaling process of ILK-mediated glycogen synthase kinase 3 beta (GSK3beta), and thus participate in Wnt signaling pathway.

References

Nakrieko, K.A., et al. Cell Cycle 7(14):2157-2166(2008)
Olsen, J.V., et al. Cell 127(3):635-648(2006)
Olsen, J.V., et al. Cell 127(3):635-648(2006)
Hillier, L.W., et al. Nature 434(7034):724-731(2005)
Kumar, A.S., et al. Oncogene 23(19):3454-3461(2004)

Images



ILKAP Antibody (Center)(Cat. #AP19399c) western blot analysis in U251 cell line lysates (35ug/lane).This demonstrates the ILKAP antibody detected the ILKAP protein (arrow).