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ILPIP Antibody

Catalog # ASC10212

Product Information

Application	WB, E, IHC-P
Primary Accession	Q9C0K7
Other Accession	NP_061041, 13027388
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	47026
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	ILPIP antibody can be used for the detection of ILPIP by Western blot at 1 to 2 g/mL. Antibody can also be used for immunohistochemistry starting at 10 g/mL.

Additional Information

Gene ID	55437
Other Names	ILPIP Antibody: PAPK, ILPIP, ILPIPA, ALS2CR2, CALS-21, PRO1038, STE20-related kinase adapter protein beta, Amyotrophic lateral sclerosis 2 chromosomal region candidate gene 2 protein, STRAD beta, STE20-related kinase adaptor beta
Target/Specificity	STRADB;
Reconstitution & Storage	ILPIP antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	ILPIP Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	STRADB
Synonyms	ALS2CR2, ILPIP
Function	Pseudokinase which, in complex with CAB39/MO25 (CAB39/MO25alpha or CAB39L/MO25beta), binds to and activates STK11/LKB1. Adopts a closed conformation typical of active protein kinases and binds STK11/LKB1 as a pseudosubstrate, promoting conformational change of STK11/LKB1 in an active conformation (By similarity).

Cellular Location	Nucleus. Cytoplasm
Tissue Location	Highly expressed in heart, skeletal muscle, testis, liver and colon.

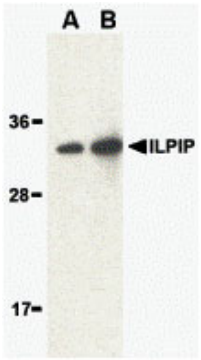
Background

ILPIP Antibody: ILPIP (ILP-interacting protein) has recently been shown to interact with XIAP, a member of the IAP (Inhibitor of Apoptosis) protein family. Together, these two proteins synergistically activate the TAK1/JNK1 signal transduction pathway, which acts to protect against the interleukin-1β converting enzyme of Fas-induced apotosis. This protein was independently isolated and characterized as polyploidy-associated protein kinase (PAPK), a member of the Ste20/germinal center kinase family that modulates cytoskeletal organization and cell survival, suggesting that its protective role may be a function of its kinase activity. Although two mRNA sequences have been isolated, only the shorter isoform has been observed.

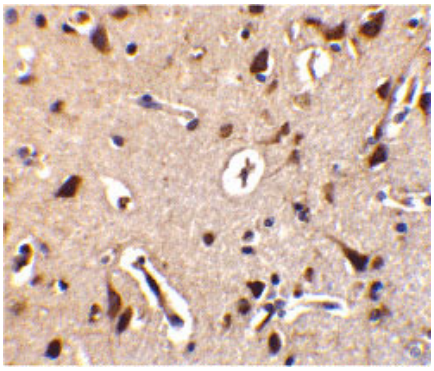
References

Sanna MG, Correia JS, Luo Y, et al. (2002) ILPIP, a novel anti-apototic protein that enhances XIAP-mediated activation of JNK and protection of apoptosis. J. Biol. Chem. 277:30454-62.
Sanna MG, Duckett CS, Richter BW, et al. (1998) Selective activation of JNK1 is necessary for the anti-apototic activity of hILP. Proc. Natl. Acad. Sci USA 95:6015-20.
Nishigaki K, Thompson D, Yugawa T, et al. (2003) Identification and characterization of a novel Ste20/germinal center kinase-related kinase, polyploidy-associated protein kinase. J. Biol. Chem. 278:13520-30.

Images



Western blot analysis of ILPIP in human brain lysate with ILPIP antibody at (A) 1 and (B) 2 µg/mL.



Immunohistochemistry of ILPIP in human brain tissue with ILPIP antibody at 10 µg/mL.