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SPRED1 Antibody

Mouse Monoclonal Antibody (Mab)
Catalog # AM2036b

Product Information

Application	WB, E
Primary Accession	Q7Z699
Other Accession	NP_689807.1
Reactivity	Human, Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	462CT2.5.1
Calculated MW	50477

Additional Information

Gene ID	161742
Other Names	Sprouty-related, EVH1 domain-containing protein 1, Spred-1, hSpred1, SPRED1
Target/Specificity	Purified His-tagged SPRED1 protein(Fragment) was used to produced this monoclonal antibody.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
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	SPRED1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SPRED1
Function	Tyrosine kinase substrate that inhibits growth-factor- mediated activation of MAP kinase (By similarity). Negatively regulates hematopoiesis of bone marrow (By similarity). Inhibits fibroblast growth factor (FGF)-induced retinal lens fiber differentiation, probably by inhibiting FGF-mediated

	phosphorylation of ERK1/2 (By similarity). Attenuates actin stress fiber formation via inhibition of TESK1-mediated phosphorylation of cofilin (PubMed:18216281). Inhibits TGFB-induced epithelial-to-mesenchymal transition in lens epithelial cells (By similarity).
Cellular Location	Cell membrane; Peripheral membrane protein. Membrane, caveola; Peripheral membrane protein. Nucleus Note=Localized in cholesterol-rich membrane raft/caveola fractions
Tissue Location	Weakly expressed in embryonic cell line HEK293.

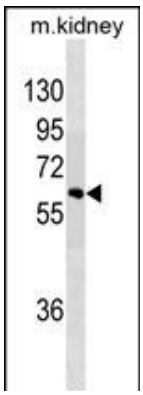
Background

The protein encoded by this gene is a member of the Sprouty family of proteins and is phosphorylated by tyrosine kinase in response to several growth factors. The encoded protein can act as a homodimer or as a heterodimer with SPRED2 to regulate activation of the MAP kinase cascade. Defects in this gene are a cause of neurofibromatosis type 1-like syndrome (NFLS). [provided by RefSeq].

References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)
Batz, C., et al. Blood 115(12):2557-2558(2010)
Messiaen, L., et al. JAMA 302(19):2111-2118(2009)
Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)
Spurlock, G., et al. J. Med. Genet. 46(7):431-437(2009)

Images



SPRED1 Antibody (Cat. #AM2036b) western blot analysis in mouse kidney tissue lysates (35µg/lane).This demonstrates the SPRED1 antibody detected the SPRED1 protein (arrow).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.