10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PPM1L Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11001b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q5SGD2
Other Accession	Q8BHN0, A5PJZ2, NP_640338.2
Reactivity	Human, Mouse
Predicted	Bovine, Rat, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB25416
Calculated MW	41053
Antigen Region	215-244

Additional Information

Gene ID	151742
Other Names	Protein phosphatase 1L, Protein phosphatase 1-like, Protein phosphatase 2C isoform epsilon, PP2C-epsilon, PPM1L, PP2CE
Target/Specificity	This PPM1L antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 215-244 amino acids from the C-terminal region of human PPM1L.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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	PPM1L Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	PPM1L
Synonyms	PP2CE

Function	Acts as a suppressor of the SAPK signaling pathways by associating with and dephosphorylating MAP3K7/TAK1 and MAP3K5, and by attenuating the association between MAP3K7/TAK1 and MAP2K4 or MAP2K6.
Cellular Location	Membrane; Single-pass type I membrane protein
Tissue Location	Ubiquitous. Highly expressed in heart, placenta, lung, liver, kidney and pancreas.

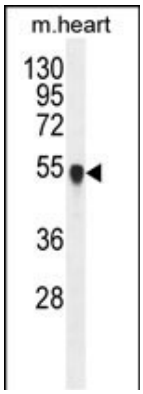
Background

PPM1L, or PP2CE, belongs to the PP2C group of serine/threonine phosphatases, which are distinguished from other phosphatases by their structure, absolute requirement for Mg(2+) or Mn(2+), and insensitivity to okadaic acid. PP2Cs regulate stress-activated protein kinase (SAPK; see MIM 601158) signaling cascades that respond to extracellular stimuli (Jin et al., 2004 [PubMed 15560375]).

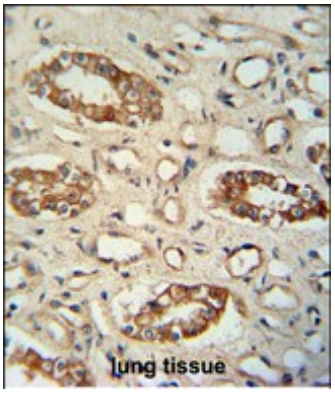
References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Thean, L.F., et al. Genes Chromosomes Cancer 49(2):99-106(2010)
Trynka, G., et al. Gut 58(8):1078-1083(2009)
Saito, S., et al. J. Biol. Chem. 283(10):6584-6593(2008)
Saito, J., et al. Biochem. J. 405(3):591-596(2007)

Images



PPM1L Antibody (C-term) (Cat. #AP11001b) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the PPM1L antibody detected the PPM1L protein (arrow).



PPM1L antibody (C-term) (Cat. #AP11001b) immunohistochemistry analysis in formalin fixed and paraffin embedded human lung tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PPM1L antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

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