

ARG56902 anti-PPM1A antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PPM1A
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PPM1A
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-382 of Human PPM1A (NP_066283.1).
Conjugation	Un-conjugated
Alternate Names	PP2C-alpha; EC 3.1.3.16; PP2C-ALPHA; Protein phosphatase 1A; PP2Calpha; Protein phosphatase IA; PP2CA; Protein phosphatase 2C isoform alpha

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Rat brain, Mouse skeletal muscle and HeLa	
Observed Size	~ 42 kDa	

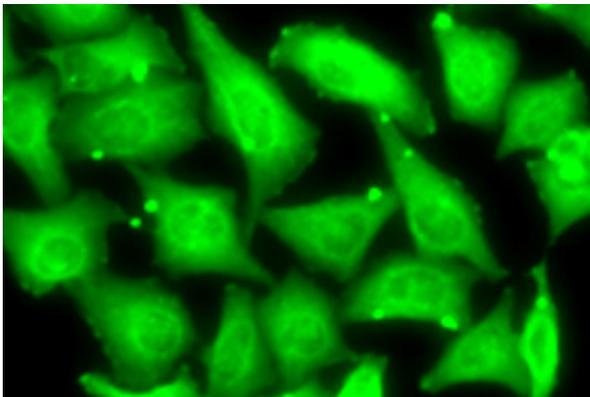
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

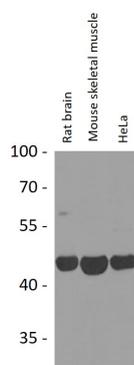
Gene Symbol	PPM1A
Gene Full Name	protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent, 1A
Background	The protein encoded by this gene is a member of the PP2C family of Ser/Thr protein phosphatases. PP2C family members are known to be negative regulators of cell stress response pathways. This phosphatase dephosphorylates, and negatively regulates the activities of, MAP kinases and MAP kinase kinases. It has been shown to inhibit the activation of p38 and JNK kinase cascades induced by environmental stresses. This phosphatase can also dephosphorylate cyclin-dependent kinases, and thus may be involved in cell cycle control. Overexpression of this phosphatase is reported to activate the expression of the tumor suppressor gene TP53/p53, which leads to G2/M cell cycle arrest and apoptosis. Three alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008]
Function	Enzyme with a broad specificity. Negatively regulates TGF-beta signaling through dephosphorylating SMAD2 and SMAD3, resulting in their dissociation from SMAD4, nuclear export of the SMADs and termination of the TGF-beta-mediated signaling. Dephosphorylates PRKAA1 and PRKAA2. Plays an important role in the termination of TNF-alpha-mediated NF-kappa-B activation through dephosphorylating and inactivating IKKB/IKKB. [UniProt]
Calculated Mw	42 kDa
PTM	N-myristoylation is essential for the recognition of its substrates for dephosphorylation. [UniProt]
Cellular Localization	Nucleus. Cytoplasm, cytosol. Membrane; Lipid-anchor. Note=Weakly associates at the membrane and N-myristoylation mediates the membrane localization. [UniProt]

Images



ARG56902 anti-PPM1A antibody ICC/IF image

Immunofluorescence: HeLa cells stained with ARG56902 anti-PPM1A antibody.



ARG56902 anti-PPM1A antibody WB image

Western blot: 25 µg of Rat brain, Mouse skeletal muscle and HeLa cell lysates stained with ARG56902 anti-PPM1A antibody at 1:1000 dilution.