

ARG54879 anti-PPM1D antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PPM1D
Tested Reactivity	Hu
Tested Application	WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PPM1D
Species	Human
Immunogen	KLH-conjugated synthetic peptide corresponding to aa. 571-602 (C-terminus) of Human PPM1D.
Conjugation	Un-conjugated
Alternate Names	WIP1; PP2C-DELTA; Protein phosphatase magnesium-dependent 1 delta; EC 3.1.3.16; Protein phosphatase 1D; p53-induced protein phosphatase 1; PP2C-delta; Protein phosphatase 2C isoform delta

Application Instructions

Application table	Application	Dilution
	WB	1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	293	

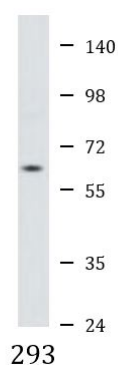
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS and 0.09% (W/V) Sodium azide
Preservative	0.09% (W/V) Sodium azide
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 or below. 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

Database links	GeneID: 8493 Human Swiss-port # O15297 Human
Gene Symbol	PPM1D
Gene Full Name	protein phosphatase, Mg ²⁺ /Mn ²⁺ dependent, 1D
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. The expression of this gene is induced in a p53-dependent manner in response to various environmental stresses. While being induced by tumor suppressor protein TP53/p53, this phosphatase negatively regulates the activity of p38 MAP kinase, MAPK/p38, through which it reduces the phosphorylation of p53, and in turn suppresses p53-mediated transcription and apoptosis. This phosphatase thus mediates a feedback regulation of p38-p53 signaling that contributes to growth inhibition and the suppression of stress induced apoptosis. This gene is located in a chromosomal region known to be amplified in breast cancer. The amplification of this gene has been detected in both breast cancer cell line and primary breast tumors, which suggests a role of this gene in cancer development. [provided by RefSeq, Jul 2008]
Function	Required for the relief of p53-dependent checkpoint mediated cell cycle arrest. Binds to and dephosphorylates 'Ser-15' of TP53 and 'Ser-345' of CHEK1 which contributes to the functional inactivation of these proteins. [UniProt]
Research Area	Cancer antibody; Signaling Transduction antibody
Calculated Mw	67 kDa

Images



ARG54879 anti-PPM1D antibody WB image

Western blot: 293 cell lysate stained with ARG54879 anti-PPM1D antibody.