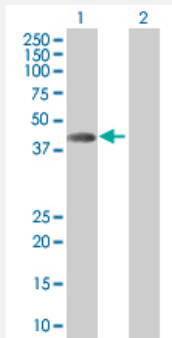


# PPM1A 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00005494-T01

Size 100 uL

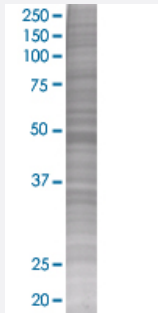
## Applications



### Western Blot

Lane 1: PPM1A transfected lysate ( 42.4 KDa)

Lane 2: Non-transfected lysate.



### SDS-PAGE Gel

PPM1A transfected lysate.

## Specification

**Transfected Cell Line** 293T

**Plasmid** pCMV-PPM1A full-length

**Host** Human

**Theoretical MW (kDa)** 42.13

**Quality Control Testing** Transient overexpression cell lysate was tested with Anti-PPM1A antibody ([H00005494-B01](#)) by Western Blots.  
Western Blot  
Lane 1: PPM1A transfected lysate ( 42.4 KDa)  
Lane 2: Non-transfected lysate.  
SDS-PAGE Gel  
PPM1A transfected lysate.

Storage Buffer	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot

## Gene Info — PPM1A

Entrez GeneID	<a href="#">5494</a>
GeneBank Accession#	<a href="#">NM_021003</a>
Protein Accession#	<a href="#">NP_066283</a>
Gene Name	PPM1A
Gene Alias	FLJ42306, MGC9201, PP2C-ALPHA, PP2CA
Gene Description	protein phosphatase 1A (formerly 2C), magnesium-dependent, alpha isoform
Omim ID	<a href="#">606108</a>
Gene Ontology	<a href="#">Hyperlink</a>

Gene Summary	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]
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Other Designations	protein phosphatase 1A protein phosphatase 2C alpha isoform
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## Pathway

- [MAPK signaling pathway](#)

## Disease

- [Tobacco Use Disorder](#)