

## Product datasheet for **CF502900**

### PPM1B Mouse Monoclonal Antibody [Clone ID: OTI3E8]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI3E8
Applications:	IHC, WB
Recommended Dilution:	WB 1:2000, IHC 1:150
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PPM1B(NP_002697) produced in HEK293 cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	52.5 kDa
Gene Name:	protein phosphatase, Mg <sup>2+</sup> /Mn <sup>2+</sup> dependent 1B
Database Link:	<a href="#">NP_002697</a> <a href="#">Entrez Gene 19043 Mouse</a> <a href="#">Entrez Gene 24667 Rat</a> <a href="#">Entrez Gene 5495 Human</a> <a href="#">O75688</a>



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**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 has been shown to dephosphorylate cyclin-dependent kinases (CDKs), and thus may be involved in cell cycle control. Overexpression of this phosphatase is reported to cause cell-growth arrest or cell death. Alternative splicing results in multiple transcript variants encoding different isoforms. Additional transcript variants have been described, but currently do not represent full-length sequences. [provided by RefSeq]

**Synonyms:**

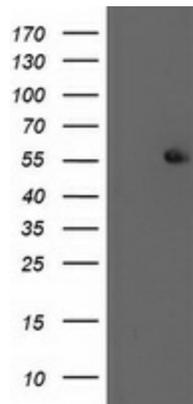
PP2C-beta; PP2C-beta-X; PP2CB; PP2CBETA; PPC2BETAX

**Protein Families:**

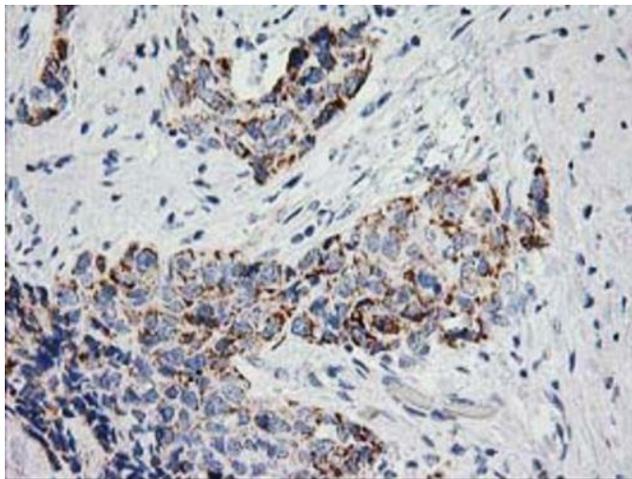
Druggable Genome, Phosphatase, Stem cell - Pluripotency

**Protein Pathways:**

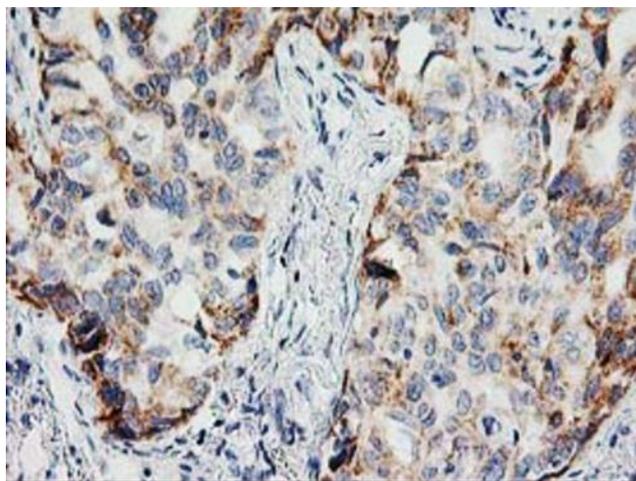
MAPK signaling pathway

**Product images:**

HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY PPM1B [RC212918], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PPM1B. Positive lysates [LY419156] (100ug) and [LC419156] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-PPM1B mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502900])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-PPM1B mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA502900])