

## PP5 mouse mAb

<b>Catalog No :</b>	YM1269
<b>Reactivity :</b>	Human
<b>Applications :</b>	WB
<b>Target :</b>	PP5
<b>Fields :</b>	>>MAPK signaling pathway
<b>Gene Name :</b>	ppp5c
<b>Human Gene Id :</b>	5536
<b>Human Swiss Prot No :</b>	P53041
<b>Mouse Swiss Prot No :</b>	Q60676
<b>Immunogen :</b>	Purified recombinant human PP5 protein fragments expressed in E.coli.
<b>Specificity :</b>	This antibody detects endogenous levels of PP5 and does not cross-react with related protein
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	wb 1:1000
<b>Purification :</b>	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	57kD

**Cell Pathway :** MAPK\_ERK\_Growth;MAPK\_G\_Protein;

**Background :** This gene encodes a serine/threonine phosphatase which is a member of the protein phosphatase catalytic subunit family. Proteins in this family participate in pathways regulated by reversible phosphorylation at serine and threonine residues; many of these pathways are involved in the regulation of cell growth and differentiation. The product of this gene has been shown to participate in signaling pathways in response to hormones or cellular stress, and elevated levels of this protein may be associated with breast cancer development. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2011],

**Function :** catalytic activity:A phosphoprotein + H(2)O = a protein + phosphate.,cofactor:Binds 1 iron ion per subunit.,cofactor:Binds 1 manganese ion per subunit.,function:May play a role in the regulation of RNA biogenesis and/or mitosis. In vitro, dephosphorylates serine residues of skeletal muscle phosphorylase and histone H1.,similarity:Belongs to the PPP phosphatase family.,similarity:Belongs to the PPP phosphatase family. PP-5 (PP-T) subfamily.,similarity:Contains 3 TPR repeats.,subcellular location:Predominantly nuclear. But also present in the cytoplasm.,subunit:Interacts with CDC16 and CDC27.,tissue specificity:Ubiquitous.,

**Subcellular Location :** Nucleus . Cytoplasm . Cell membrane . Predominantly nuclear (PubMed:15383005). But also present in the cytoplasm (PubMed:15383005). Translocates from the cytoplasm to the plasma membrane in a RAC1-dependent manner (PubMed:19948726). .

**Expression :** Ubiquitous.

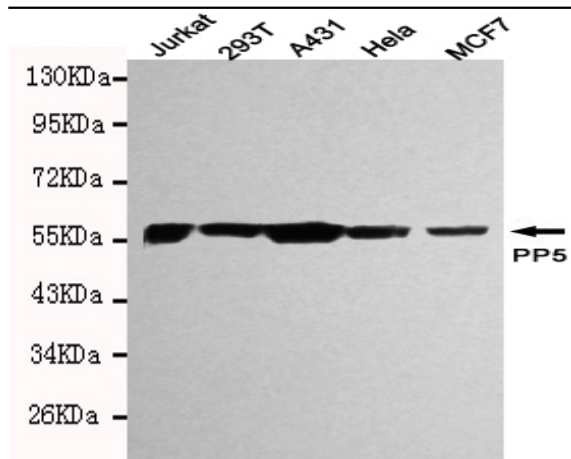
**Sort :** 12938

**No4 :** 1

**Host :** Mouse

**Modifications :** Unmodified

## Products Images



Western blot detection of PP5 in HeLa, Jurkat, 293T, A431 and MCF7 cell lysates using PP5 mouse mAb (1:1000 diluted). Predicted band size: 57kDa. Observed band size: 57kDa.