



PP5 Monoclonal Antibody

Catalog No	YP-Ab-14204
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	PPP5C
Immunogen	Purified recombinant human PP5 protein fragments expressed in E.coli.
Specificity	PP5 Monoclonal Antibody detects endogenous levels of PP5 protein.
Formulation	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/1000 - 1/2000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	TFPI 2;REF1;PP5;Placental protein 5;230135E3;PPP5C;Serine/threonine-protein phosphatase 5;PPP5;Protein phosphatase T;PP-T;PPT
Observed Band	
Calculated Molecular Weight	
Cell Pathway	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). .
Tissue Specificity	Ubiquitous.
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.,



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],

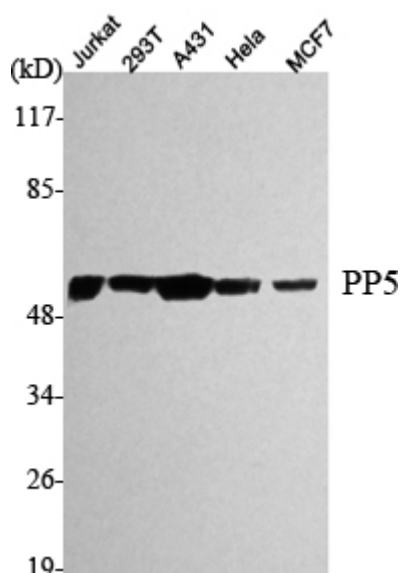
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis using PP5 Monoclonal Antibody against HeLa, Jurkat, 293T, A431, MCF7 cell lysate.