



PSR Monoclonal Antibody

Catalog No	YP-Ab-12948
Isotype	IgG
Reactivity	Human;Mouse;Rat;Bovine;Dog
Applications	WB;IF
Gene Name	JMJD6
Immunogen	Purified recombinant human PSR (N-terminus) protein fragments expressed in E.coli.
Specificity	PSR Monoclonal Antibody detects endogenous levels of PSR 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. Immunofluorescence: 1/100 - 1/500. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Bifunctional arginine demethylase and lysyl-hydroxylase JMJD6;EC:1.14.11.-; JmjC domain-containing protein 6;Jumonji domain-containing protein 6;KIAA585; PSR;JMJD6;KIAA0585;PTDSR;Histone arginine demethylase JMJD6;Lysyl-hydroxylase JMJD6;Peptide-lysine 5-diox
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Nucleus, nucleoplasm . Nucleus, nucleolus . Cytoplasm . Mainly found throughout the nucleoplasm outside of regions containing heterochromatic DNA, with some localization in nucleolus. During mitosis, excluded from the nucleus and reappears in the telophase of the cell cycle. .
Tissue Specificity	Highly expressed in the heart, skeletal muscle and kidney. Expressed at moderate or low level in brain, placenta, lung, liver, pancreas, spleen, thymus, prostate, testis and ovary. Up-regulated in many patients with chronic pancreatitis. Expressed in nursing thymic epithelial cells.
Function	caution:Was initially thought to constitute the phosphatidylserine receptor, a receptor that mediates recognition of phosphatidylserine, a specific marker only present at the surface of apoptotic cells. Phosphatidylserine receptor probably



participates in apoptotic cell phagocytosis. This protein was identified using phage display expressing mAb 217, an antibody that specifically recognizes phosphatidylserine receptor. However, its nuclear localization and the fact that mAb 217 antibody still recognizes the phosphatidylserine receptor in mice lacking JMJD6, strongly suggest that it does not constitute the receptor for phosphatidylserine and is not involved in apoptotic cell removal.,domain:The nuclear localization signal motifs are necessary and sufficient to target it into the nucleus.,function:Arginine demethylase which demethylates histone H3 at 'Arg-2' (H3R2me) and histone H4 at 'Arg

Background

This gene encodes a nuclear protein with a JmjC domain. JmjC domain-containing proteins are predicted to function as protein hydroxylases or histone demethylases. This protein was first identified as a putative phosphatidylserine receptor involved in phagocytosis of apoptotic cells; however, subsequent studies have indicated that it does not directly function in the clearance of apoptotic cells, and questioned whether it is a true phosphatidylserine receptor. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008],

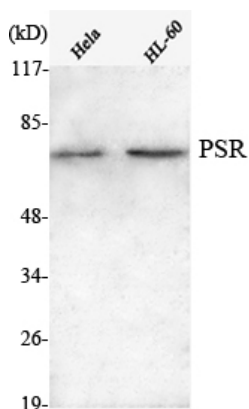
matters needing attention

Avoid repeated freezing and thawing!

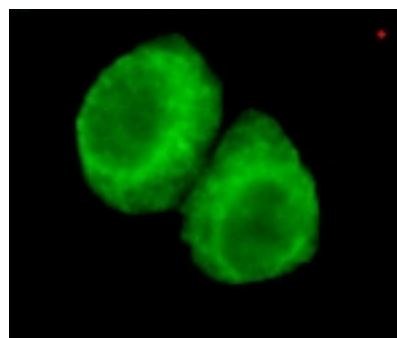
Usage suggestions

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

Products Images



Western Blot analysis using PSR Monoclonal Antibody against HeLa, HL-60 cell lysate.



Immunofluorescence analysis of HeLa cells using PSR Monoclonal Antibody.