

## PSR Monoclonal Antibody

<b>Catalog No :</b>	YM1087
<b>Reactivity :</b>	Human;Mouse;Rat;Bovine;Dog
<b>Applications :</b>	WB;IF
<b>Target :</b>	PSR
<b>Gene Name :</b>	JMJD6
<b>Protein Name :</b>	Bifunctional arginine demethylase and lysyl-hydroxylase JMJD6
<b>Human Gene Id :</b>	23210
<b>Human Swiss Prot No :</b>	Q6NYC1
<b>Mouse Gene Id :</b>	107817
<b>Mouse Swiss Prot No :</b>	Q9ERI5
<b>Rat Gene Id :</b>	360665
<b>Rat Swiss Prot No :</b>	Q6AYK2
<b>Immunogen :</b>	Purified recombinant human PSR (N-terminus) protein fragments expressed in E.coli.
<b>Specificity :</b>	PSR Monoclonal Antibody detects endogenous levels of PSR 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 - 1:2000. IF 1:100 - 1:500. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification

**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Molecularweight :** 46kD

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**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],

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**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'

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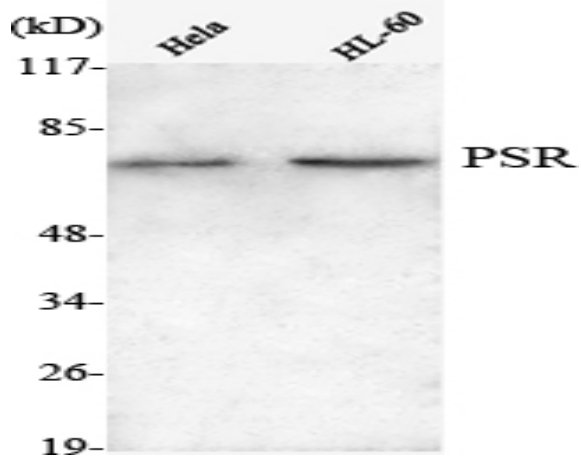
**Subcellular Location :** Nucleus, nucleoplasm . Nucleus, nucleolus . Cytoplasm . Mainly found throughout the nucleoplasm outside of regions containing heterochromatic DNA, with some localization in nucleolus. During mitosis, excluded from the nucleus and reappears in the telophase of the cell cycle. .

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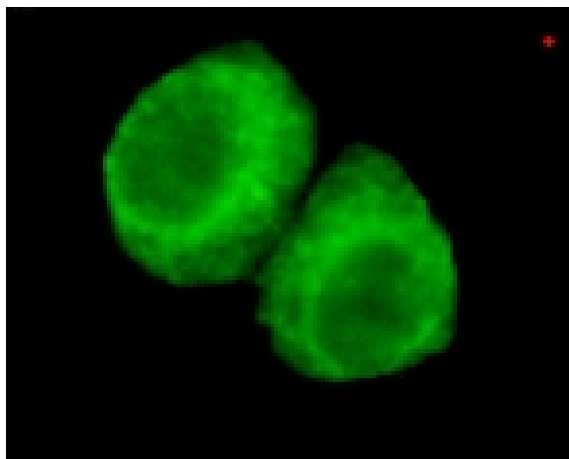
**Expression :** Highly expressed in the heart, skeletal muscle and kidney. Expressed at moderate or low level in brain, placenta, lung, liver, pancreas, spleen, thymus, prostate, testis and ovary. Up-regulated in many patients with chronic pancreatitis. Expressed in nursing thymic epithelial cells.

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## Products Images



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



Immunofluorescence analysis of HeLa cells using PSR Monoclonal Antibody.