PSR Mouse mAb

CatalogNo: YM1087

Key Features

Host Species
- Mouse

Reactivity
- Human,Mouse,Rat,Bovine,Dog

Applications
- WB,IF

MW
- 46kD (Calculated)

Recommended Dilution Ratios

WB 1:1000-1:2000
IF 1:100-1:500
Not yet tested in other applications.

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Monoclonal

Immunogen Information

Immunogen	Purified recombinant human PSR (N-terminus) protein fragments expressed in E.coli.
Specificity	PSR Monoclonal Antibody detects endogenous levels of PSR protein.

Target Information

Gene name	JMJD6

Protein Name Bifunctional arginine demethylase and lysyl-hydroxylase JMJD6

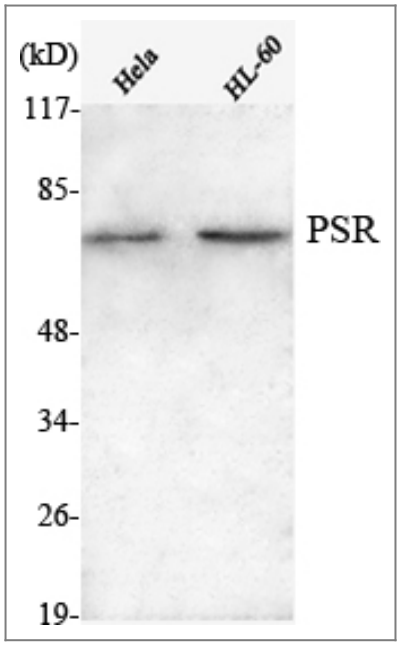
Organism	Gene ID	UniProt ID
Human	23210;	Q6NYC1;
Mouse	107817;	Q9ERI5;
Rat	360665;	Q6AYK2;

Cellular Localization 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. .

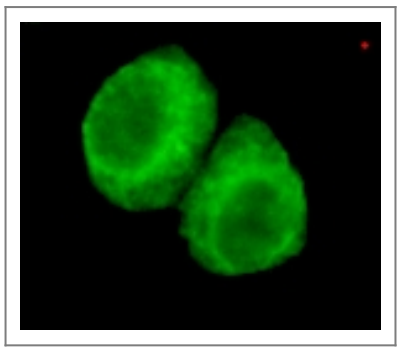
Tissue specificity Highly expressed in the heart, skeletal muscle and kidney. Expressed at moderate or low level in brain, placenta, lung, liver, pancreas, spleen, thymus, prostate, testis and ovary. Up-regulated in many patients with chronic pancreatitis. Expressed in nursing thymic epithelial cells.

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-3' (H4R3me). Required for differentiation of multiple organs during embryogenesis. Probably acts as a key regulator of hematopoietic differentiation. Seems to be necessary for the regulation of macrophage cytokine responses.,induction:Up-regulated upon cytokine treatment, but not upon TNF-alpha treatment.,similarity:Belongs to the PTDSR family.,similarity:Contains 1 JmjC domain.,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.,

Validation Data



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



Immunofluorescence analysis of HeLa cells using PSR Monoclonal Antibody.

Contact information

Orders:	order@immunoway.com
Support:	tech@immunoway.com
Telephone:	877-594-3616 (Toll Free), 408-747-0185
Website:	http://www.immunoway.com
Address:	2200 Ringwood Ave San Jose, CA 95131 USA

Please scan the QR code to access additional product information:
PSR Mouse mAb