bsm-54170R **[Primary Antibody]**

PSMA1 Recombinant Rabbit mAb

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DATASHEET

Host: Rabbit
Isotype: IgG
Clonality: Recombinant
CloneNo.: 10A2
GeneID: 5682
SWISS: P25786
Target: PSMA1
Purification: affinity purified by Protein A
Concentration: 1mg/ml
Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Ubiquitin-dependent proteolysis mediates selective destruction of various cell cycle regulators, transcription factors and tumor suppressors. In eukaryotic cells, selective breakdown of cellular proteins is ensured by their ubiquitination and subsequent degradation by the 26S proteasome. At specific stages of development, embryo- and tissue-specific components of the 26S proteasome form, facilitating proteolysis. 20S Proteasome ?, also designated macropain subunit C2 or PROS-30, is a prosomal protein involved in a non-lysosomal ATP/ubiquitin-dependent proteolytic pathway. The entire proteasome is composed of at least 15 non-identical subunits which form a highly-ordered ring-shaped structure.

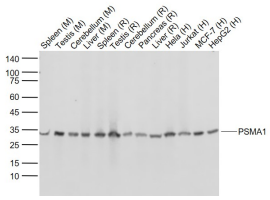
Applications: **WB** (1:500-2000)
IHC-P (1:50-200)
IHC-F (1:50-200)
IF (1:50-200)
Flow-Cyt (1:50)
ICC/IF (1:50)

Reactivity: Human, Mouse, Rat

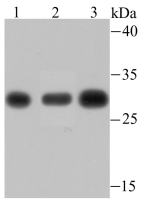
Predicted MW.: 30 kDa

Subcellular Location: Cytoplasm ,Nucleus

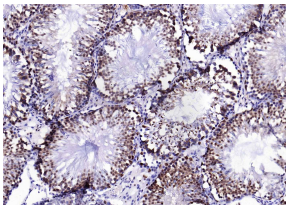
VALIDATION IMAGES



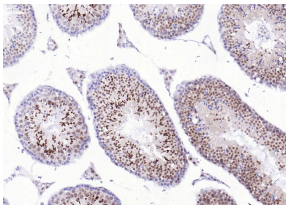
Sample: Lane 1: Mouse Spleen tissue lysates Lane 2: Mouse Testis tissue lysates Lane 3: Mouse Cerebellum tissue lysates Lane 4: Mouse Liver tissue lysates Lane 5: Rat Spleen tissue lysates Lane 6: Rat Testis tissue lysates Lane 7: Rat Cerebellum tissue lysates Lane 8: Rat Pancreas tissue lysates Lane 9: Rat Liver tissue lysates Lane 10: Human Hela cell lysates Lane 11: Human Jurkat cell lysates Lane 12: Human MCF-7 cell lysates Lane 13: Human HepG2 cell lysates Primary: Anti-PSMA1 (bsm-54170R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 30 kD Observed band size: 32 kD



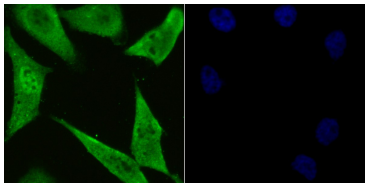
Sample: Lane 1: PC-12 cell lysate Lane 2: mouse spleen tissue lysate Lane 3: rat spleen tissue lysate Primary: Anti-PSMA1 (bsm-54170R) at 1:500 dilution Secondary: Goat Anti-Rabbit IgG - HRP at 1:5000 dilution Predicted band size: 30 kD Observed band size: 30 kD



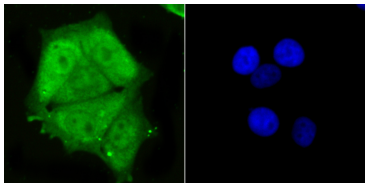
Paraformaldehyde-fixed, paraffin embedded (rat testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PSMA1) Monoclonal Antibody, Unconjugated (bsm-54170R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (mouse testis); Antigen retrieval by boiling in

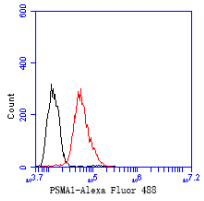


PC-3M cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking



MCF-7 cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking

sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (PSMA1) Monoclonal Antibody, Unconjugated (bsm-54170R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control:HepG2. Primary Antibody (green line): Rabbit Anti-PSMA1 antibody (bsm-54170R) Dilution: 1:50; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF488 Dilution: 1:1000. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at-20°C. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (PSMA1) monoclonal Antibody, Unconjugated (bsm-54170R) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.

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