10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PSMA
Purified Mouse Monoclonal Antibody
Catalog # AO2727a

Specification

PSMA - Product Information

Application	**E, WB, FCM**
Primary Accession	Q04609
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**84.3kDa KDa**

Immunogen
Purified recombinant fragment of human PSMA (AA: extra 44-177) expressed in E. Coli.

Formulation
Purified antibody in PBS with 0.05% sodium azide

PSMA - Additional Information

Gene ID 2346

Other Names
FOLH1; PSM; FGCP; FOLH; GCP2; mGCP; GCPII; NAALAD1; NAALAdase

Dilution
E~~ 1/10000
WB~~ 1/500 - 1/2000
FCM~~1/200 - 1/400

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PSMA is for research use only and not for use in diagnostic or therapeutic procedures.

PSMA - Protein Information

Name FOLH1 (HGNC:3788)

Synonyms FOLH, NAALAD1, PSM, PSMA

Function
Has both folate hydrolase and N-acetylated-alpha-linked- acidic dipeptidase (NAALADase) activity. Has a preference for tri- alpha-glutamate peptides. In the intestine, required for the uptake of

folate. In the brain, modulates excitatory neurotransmission through the hydrolysis of the neuropeptide, N-aceylaspartylglutamate (NAAG), thereby releasing glutamate. Involved in prostate tumor progression.

Cellular Location
Cell membrane; Single-pass type II membrane protein

Tissue Location
Highly expressed in prostate epithelium. Detected in urinary bladder, kidney, testis, ovary, fallopian tube, breast, adrenal gland, liver, esophagus, stomach, small intestine, colon and brain (at protein level). Detected in the small intestine, brain, kidney, liver, spleen, colon, trachea, spinal cord and the capillary endothelium of a variety of tumors. Expressed specifically in jejunum brush border membranes. In the brain, highly expressed in the ventral striatum and brain stem. Also expressed in fetal liver and kidney Isoform PSMA' is the most abundant form in normal prostate. Isoform PSMA-1 is the most abundant form in primary prostate tumors. Isoform PSMA-9 is specifically expressed in prostate cancer

PSMA - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PSMA - Images

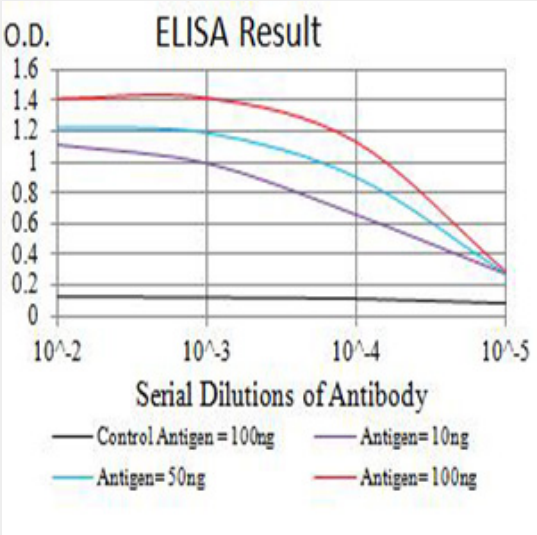


Figure 1:Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

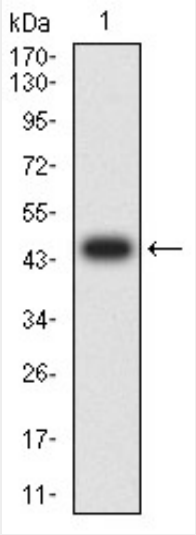


Figure 2:Western blot analysis using PSMA mAb against human PSMA (AA: extra 44-177) recombinant protein. (Expected MW is 47 kDa)

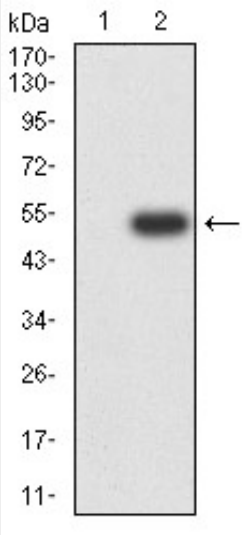
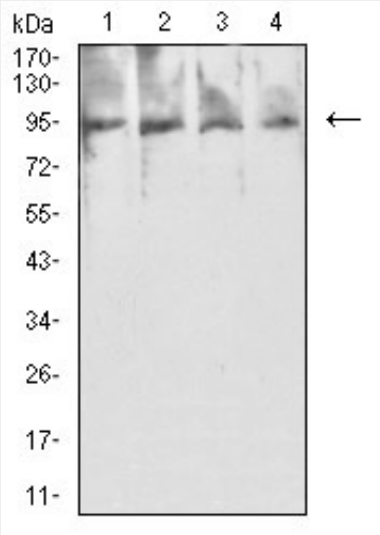


Figure 3:Western blot analysis using PSMA mAb against HEK293 (1) and PSMA (AA: extra 44-177)-hIgGFc transfected HEK293 (2) cell lysate.



10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Figure 4:Western blot analysis using PSMA mouse mAb against Hela (1), MCF-7 (2), HCT116 (3), and GC-7901 (4) cell lysate.

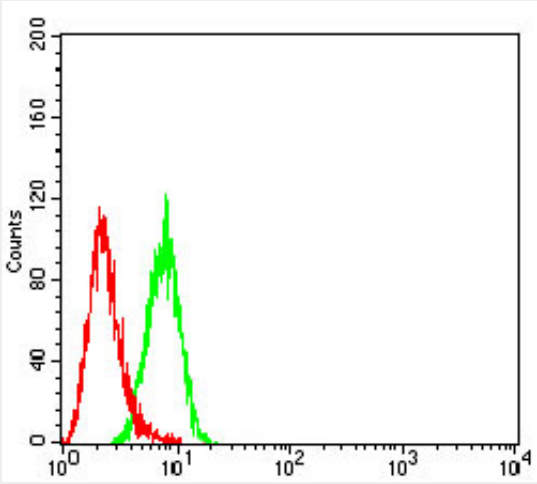


Figure 5:Flow cytometric analysis of Hela cells using PSMA mouse mAb (green) and negative control (red).

PSMA - References

1.Med Oncol. 2014 Mar;31(3):857. 2.Int J Oncol. 2014 Mar;44(3):918-22.