10320 Camino Santa Fe, Suite G
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# PSMA
**Mouse Monoclonal antibody(Mab)**
**Catalog # AD80110**

## Specification

### PSMA - Product info

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|---|---|
| Application | **IHC-P** |
| Primary Accession | Q04609 |
| Reactivity | **Human** |
| Host | **Mouse** |
| Clonality | **Monoclonal** |
| Calculated MW | **84331** |

### PSMA - Additional info

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|---|---|
| Gene ID | **2346** |
| Gene Name | **FOLH1** |

**Other Names**
Glutamate carboxypeptidase 2, 3.4.17.21, Cell growth-inhibiting gene 27 protein, Folate hydrolase 1, Folylpoly-gamma-glutamate carboxypeptidase, FGCP, Glutamate carboxypeptidase II, GCPII, Membrane glutamate carboxypeptidase, mGCP, N-acetylated-alpha-linked acidic dipeptidase I, NAALADase I, Prostate-specific membrane antigen, PSM, PSMA, Pteroylpoly-gamma-glutamate carboxypeptidase, FOLH1 (<a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=3788" target="_blank">HGNC:3788</a>), FOLH, NAALAD1, PSM, PSMA

**Dilution**
IHC-P~~Ready-to-use

**Storage**
Maintain refrigerated at 2-8°C

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

### PSMA - Protein Information

**Name** FOLH1 (HGNC:3788)

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| 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-** |

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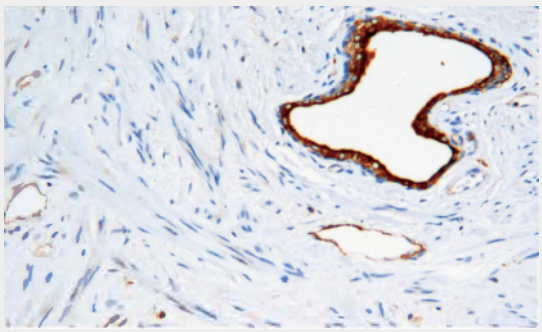
| | **aceylaspartylglutamate (NAAG), thereby releasing glutamate. Involved in prostate tumor progression.** |
| Cellular Location | **Cell membrane; Single-pass type II membrane protein** |
| Tissue Location | **Highly expressed in prostate epithelium. Detected in urinary bladder, kidney, testis, ovary, 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-3 is also found in normal prostate as well as in brain and liver. 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**



Prostate cancer

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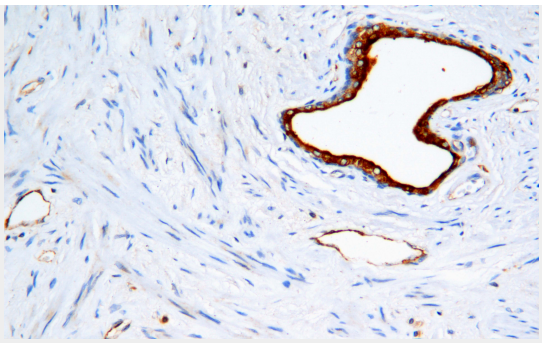

Immunohistochemical analysis of paraffin-embedded Ewing's sarcoma tissue using AD80259 performed on the Abcarta® FAIP-30 Fully automated IHC platform.Tissue was fixed with formaldehyde at room temperature, antigen retrieval was by heat mediation with a EDTA buffer (pH9. 0). Samples were incubated with primary antibody(Ready-to-use) for 15 min at room temperature. AmpSeeTM Detection Systems□Abcepta:AR005□ was used as the secondary antibody.