

## Product datasheet for **AM09257PU-N**

### PSMA (FOLH1) Mouse Monoclonal Antibody [Clone ID: 7F3]

#### Product data:

|                        |   |
|------------------------|---|
| Product Type:          | Primary Antibodies  |
| Clone Name:            | 7F3   |
| Applications:          | ELISA   |
| Recommended Dilution:  | <b>ELISA.</b><br>In <b>Indirect ELISA</b> this antibody is reactive to PSMA expressing LNCap cells coated ELISA plate.  |
| Reactivity:            | Human   |
| Host:                  | Mouse   |
| Isotype:               | IgG2a   |
| Clonality:             | Monoclonal  |
| Immunogen:             | Crude membrane protein extraction from PSMA expression LNCap cells, and a PSMA derived peptide (ESKVDPSKA) coupled with KLH.  |
| Specificity:           | This antibody is reactive to PSMA expression LNCap cells and the KLH conjugated PSMA peptide.<br>Little or no cross-reactivity to KLH and BSA.  |
| Formulation:           | 0.01M PBS, pH 7.0<br>State: Aff - Purified<br>State: Lyophilized purified IgG fraction<br>Stabilizer: None<br>Preservative: None  |
| Reconstitution Method: | Restore with Double distilled water to adjust the final concentration to 1.0 mg/ml.   |
| Concentration:         | 1.0 mg/ml (after reconstitution)  |
| Purification:          | Affinity Chromatography on Protein G  |
| Conjugation:           | Unconjugated  |
| Storage:               | Store lyophilized at 2-8°C for 6 months or at -20°C long term.<br>After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.<br>Avoid repeated freezing and thawing. |
| Stability:             | Shelf life: one year from despatch.   |



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| <b>Gene Name:</b>        | folate hydrolase (prostate-specific membrane antigen) 1  |
| <b>Database Link:</b>    | <a href="#">Entrez Gene 2346 Human Q04609</a>  |
| <b>Background:</b>       | Prostate Specific Membrane Antigen (PMSA, FOLH1) is a type II transmembrane glycoprotein belonging to the M28 peptidase family. Three functionally distinct proteins are encoded, including folylpoly-gamma-glutamate carboxypeptidase in the intestine, N-acetylated alpha-linked acidic dipeptidase 1 in the brain, and prostate-specific membrane antigen in the prostate. A mutation in the intestinal form may be associated with impaired intestinal absorption of dietary folates, resulting in low blood folate levels and consequent hyperhomocysteinemia. The form expressed in the brain may be involved in a number of pathological conditions associated with glutamate excitotoxicity. The prostate form is up-regulated in cancerous cells and is used as an effective diagnostic and prognostic indicator of prostate cancer. This gene likely arose from a duplication event of a nearby chromosomal region. Alternative splicing gives rise to multiple transcript variants. |
| <b>Synonyms:</b>         | Glutamate carboxypeptidase 2, Folate hydrolase 1, Prostate-specific membrane antigen, FOLH, NAALAD1, PSM, GCP2, NAALAdase  |
| <b>Protein Families:</b> | Druggable Genome, Protease, Transmembrane  |