

Product datasheet for **AM09256PU-N**

PSMA (FOLH1) Mouse Monoclonal Antibody [Clone ID: 4H11]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4H11
Applications:	ELISA, IHC
Recommended Dilution:	ELISA. Immunohistochemistry on Paraffin Sections: PSMA were detected in Paraffin-Embedded Human prostatic tissue and Prostatic Carcinoma tissue with Monoclonal PSMA antibody (Cat#AM09256PU-N, Clone: 4H11).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
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 PSMA peptide in EIA. In IHC staining experiment, this antibody reacts to human prostatic carcinoma tissue, but not to normal prostatic tissue. Little or no cross-reactivity to normal prostatic tissue.
Formulation:	0.01M PBS, pH 7.0 without preservatives. State: Aff - Purified State: Lyophilized purified IgG fraction.
Reconstitution Method:	Restore with Double distilled water to adjust the final concentration to 1.0 mg/ml.
Purification:	Affinity Chromatography on Protein G.
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	folate hydrolase (prostate-specific membrane antigen) 1



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Database Link: [Entrez Gene 2346 Human Q04609](#)

Background: 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.

Synonyms: Glutamate carboxypeptidase 2, Folate hydrolase 1, Prostate-specific membrane antigen, FOLH, NAALAD1, PSM, GCP2, NAALAdase

Protein Families: Druggable Genome, Protease, Transmembrane

Product images:

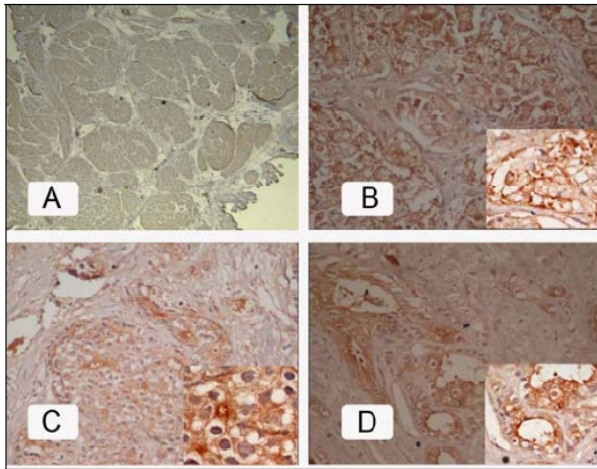


Figure 1. Immunohistochemistry in Paraffin-Embedded Human Prostatic Tissue and Prostatic Carcinoma tissue with mAb 4H11 Clone (A: normal prostate tissue, B: prostate carcinoma, C: prostate carcinoma, D: prostate carcinoma) using Monoclonal PSMA Antibody (clone 4H11).