

## Product datasheet for **TA814043BM**

### PSMA (FOLH1) Mouse Monoclonal Antibody (HRP conjugated) [Clone ID: OT16B10]

#### Product data:

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OT16B10
<b>Applications:</b>	IHC
<b>Recommended Dilution:</b>	IHC 1:500
<b>Reactivity:</b>	Human
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human PSMA (NP_004467) produced in HEK293T cell.
<b>Formulation:</b>	PBS (pH 7.3) containing 1% BSA, 50% glycerol.
<b>Concentration:</b>	0.5 mg/ml
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	HRP
<b>Storage:</b>	Shipped at -20°C or with ice packs, Upon delivery store at -20°C. Dilute in PBS(pH7.3) if necessary. Stable for 12 months from date of receipt. Avoid repeated freeze-thaws.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	84.2 kDa
<b>Gene Name:</b>	folate hydrolase (prostate-specific membrane antigen) 1
<b>Database Link:</b>	<a href="#">NP_004467</a> <a href="#">Entrez Gene 2346 Human</a> <a href="#">Q04609</a>



**Background:**

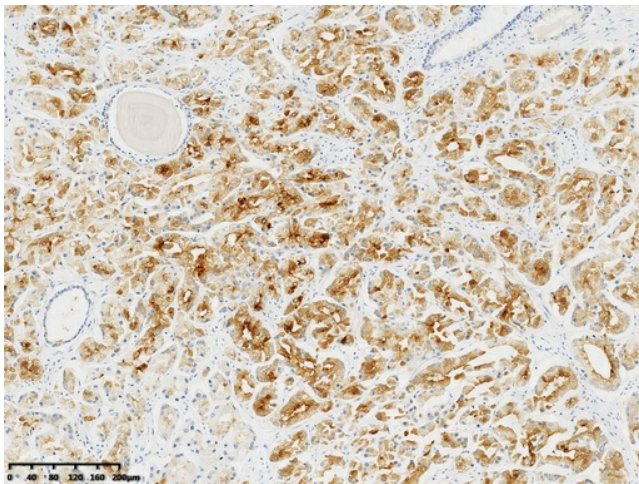
This gene encodes a type II transmembrane glycoprotein belonging to the M28 peptidase family. The protein acts as a glutamate carboxypeptidase on different alternative substrates, including the nutrient folate and the neuropeptide N-acetyl-L-aspartyl-L-glutamate and is expressed in a number of tissues such as prostate, central and peripheral nervous system and kidney. A mutation in this gene may be associated with impaired intestinal absorption of dietary folates, resulting in low blood folate levels and consequent hyperhomocysteinemia. Expression of this protein in the brain may be involved in a number of pathological conditions associated with glutamate excitotoxicity. In the prostate the protein 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 encoding several different isoforms. [provided by RefSeq, Jul 2010]

**Synonyms:**

FGCP; FOLH; GCP2; GCPII; mGCP; NAALAD1; NAALAdase; PSM; PSMA

**Protein Families:**

Druggable Genome, Protease, Transmembrane

**Product images:**

Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-PSMA mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.