

## Product datasheet for **TA504752AM**

### PSMA (FOLH1) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI3H5]

#### Product data:

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Clone Name:             | OTI3H5  |
| Applications:           | FC, IF, IHC, WB   |
| Recommended Dilution:   | WB 1:500~1000, IHC 1:150, IF 1:100, FLOW 1:100  |
| Reactivity:             | Human, Mouse  |
| Host:                   | Mouse   |
| Isotype:                | IgG1  |
| Clonality:              | Monoclonal  |
| Immunogen:              | Full length human recombinant protein of human FOLH1(NP_004467) produced in HEK293T cell.   |
| Formulation:            | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.  |
| Concentration:          | 0.5 mg/ml   |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)                             |
| Conjugation:            | Biotin  |
| Storage:                | Store at -20°C as received.   |
| Stability:              | Stable for 12 months from date of receipt.  |
| Predicted Protein Size: | 84.2 kDa  |
| Gene Name:              | folate hydrolase 1  |
| Database Link:          | <a href="#">NP_004467</a><br><a href="#">Entrez Gene 53320 Mouse</a> <a href="#">Entrez Gene 2346 Human</a><br><a href="#">Q04609</a> |



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**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]

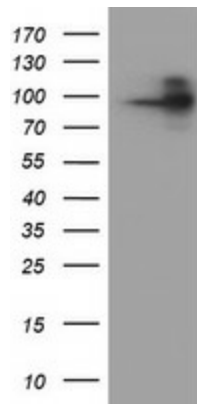
**Synonyms:**

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

**Protein Families:**

Druggable Genome, Protease, Transmembrane

**Product images:**



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY FOLH1 (Cat# [RC218310], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-FOLH1 (Cat# [TA504752]). Positive lysates [LY429203] (100ug) and [LC429203] (20ug) can be purchased separately from OriGene.

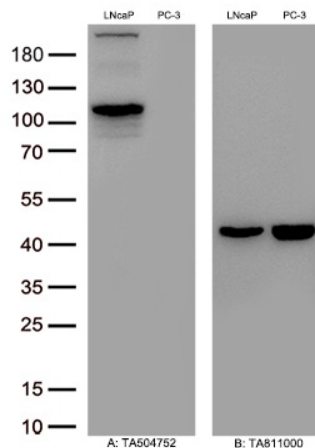
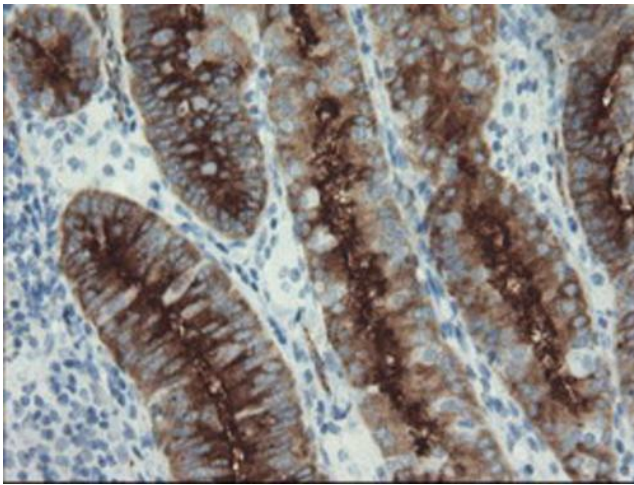
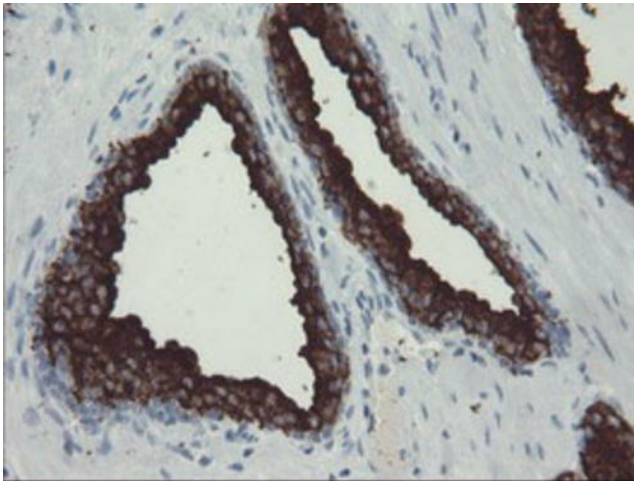


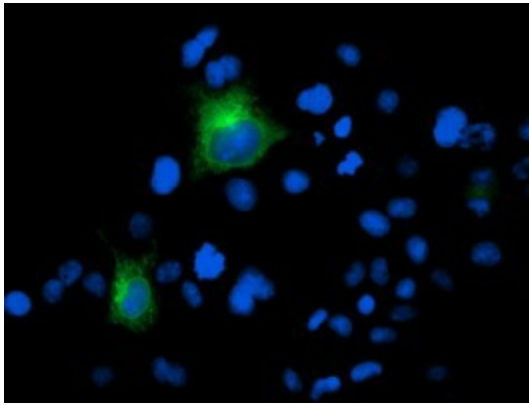
Figure A, Western blot analysis of extracts(50ug) from 2 cell lines lysates by using anti-FOLH1 antibody. ([TA504752], 1:500). Figure B, Western blot analysis of the same samples as figure A with anti-beta Actin antibody ([TA811000], 1:500)



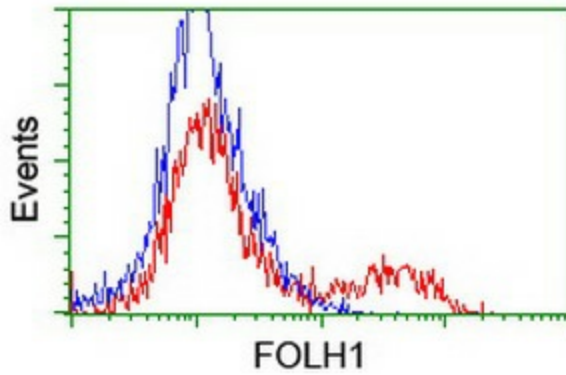
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-FOLH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504752])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-FOLH1 mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA504752])



Anti-FOLH1 mouse monoclonal antibody ([TA504752]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY FOLH1 ([RC218310]).



HEK293T cells transfected with either [RC218310] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-FOLH1 antibody ([TA504752]), and then analyzed by flow cytometry.