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Product datasheet for TA504752M

PSMA (FOLH1) Mouse Monoclonal Antibody [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
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:	1 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
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:	NP_004467 Entrez Gene 2346 Human Q04609

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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:

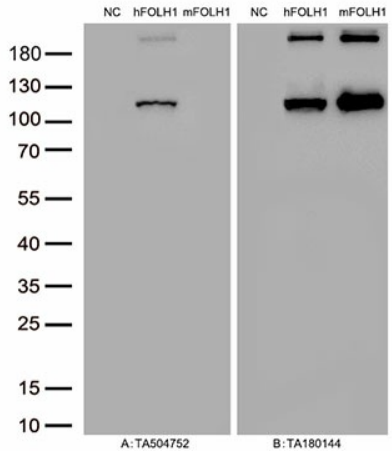


Figure A, Western blot analysis of overexpressed lysates (25ug per lane) from HEK293T cells transfected with empty plasmid ([PS100001], NC) , human FOLH1 plasmid ([RC218310], hFOLH1), mouse FOLH1 plasmid ([MR216018], mFOLH1), using anti-FOLH1 antibody [TA504752] (1:500). Figure B, Western blot analysis of the same samples as figure A with anti-DDK antibody ([TA180144], 1:1000)

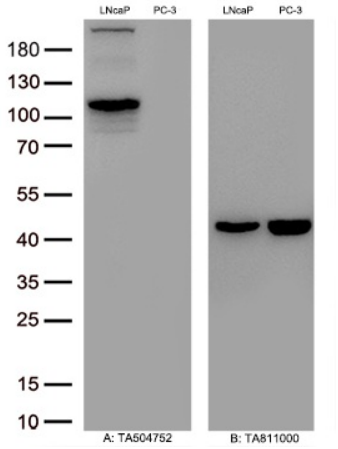
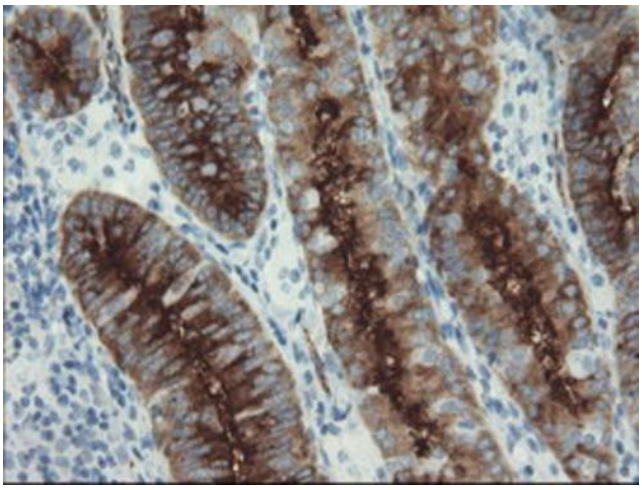
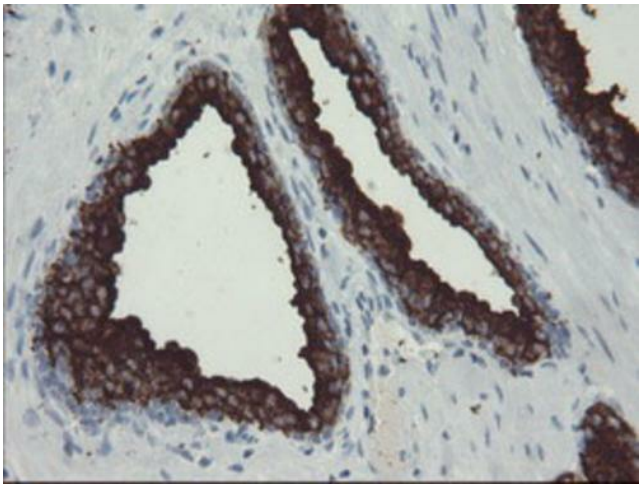


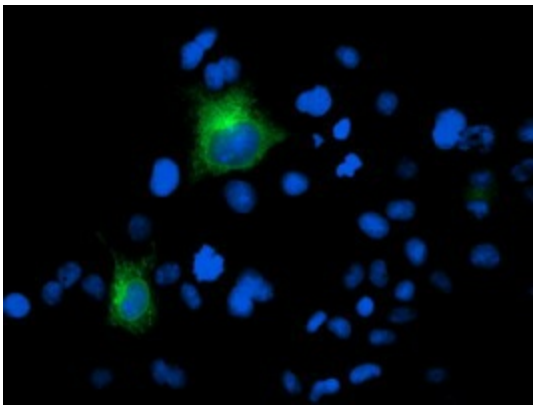
Figure A, Western blot analysis of extracts(50ug) from 2 cell lines lysates by using anti-FOLH1 antibody. ([TA504752], 1:500). Figure B, Western blot analysis of the same samples as figure A with anti-beta Actin antibody ([TA811000], 1:500)



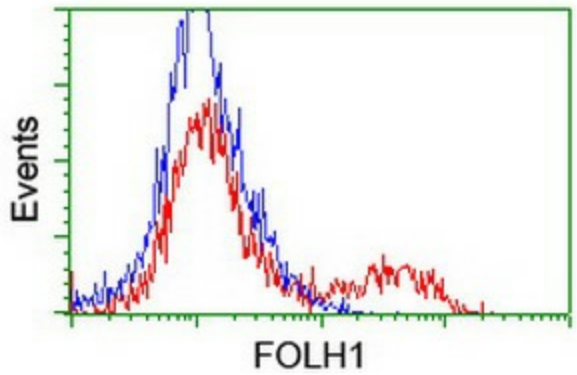
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-FOLH1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-FOLH1 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



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.