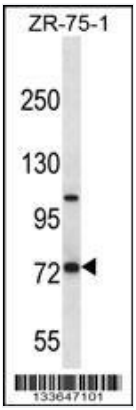
FOLH1 Antibody – Rabbit Polyclonal

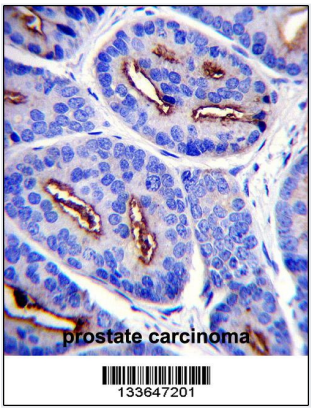
PRODUCT OVERVIEW

Product Name	FOLH1, Polyclonal Antibody
Full Product Name	FOLH1, NT (FOLH1, FOLH, NAALAD1, PSM, PSMA, Glutamate carboxypeptidase 2, Cell growth-inhibiting gene 27 protein, Folate hydrolase 1, Folylpoly-gamma-glutamate carboxypeptidase, Glutamate carboxypeptidase II, Membrane glutamate carboxypeptidase, N-acetyla
Product Gene Name	anti-FOLH1 antibody
Product Synonym Names	FOLH1; FOLH; NAALAD1; PSM; PSMA; Glutamate carboxypeptidase 2; Cell growth-inhibiting gene 27 protein; Folate hydrolase 1; Folylpoly-gamma-glutamate carboxypeptidase; Glutamate carboxypeptidase II; Membrane glutamate carboxypeptidase; N-acetylated-alpha-linked acidic dipeptidase I; Prostate-specific membrane antigen; Pteroylpoly-gamma-glutamate carboxypeptidase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	600934
3D Structure	ModBase 3D Structure for Q04609
Immunogen	FOLH1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 160-190 amino acids from the N-terminal region of human FOLH1.
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-FOLH1 antibody	Antibodies; Enzymes; Carboxypeptidase
Applications Tested/Suitable for anti-FOLH1 antibody	Immunofluorescence (IF), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-FOLH1 antibody	IF: 1:10-50 FLISA: 1:1,000 IHC: 1:10-50 WB: 1:100-500 Applications are based on unconjugated antibody.

Related Product Information for anti-FOLH1 antibody	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 test 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.
Product References and Citations for anti-FOLH1 antibody	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). Giusti, B., et al. Thromb. Haemost. 104(2):231-242(2010). Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010): Mlcochova, P., et al. Prostate 69(5):471-479(2009). Davis, M.I., et al. Proc. Natl. Acad. Sci. U.S.A. 102(17):5981-5986(2005).
Other Notes	Small volumes of anti-FOLH1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FOLH1 purchase	MBS6299587 is an antibody targeting FOLH1. Also known as FOLH1, NT (FOLH1, FOLH, NAALAD1, PSM, PSMA, Glutamate carboxypeptidase 2, Cell growth-inhibiting gene 27 protein, Folate hydrolase 1, Folylpoly-gamma-glutamate carboxypeptidase, Glutamate carboxypeptidase II, Membrane glutamate carboxypeptidase, N-acetyla. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-FOLH1 antibody
FOLH1 Antibody (N-term) western blot analysis in ZR-75-1 cell line lysates (35ug/lane).This demonstrates the FOLH1 antibody detected the FOLH1 protein (arrow).



Immunohistochemistry (IHC) of anti-FOLH1 antibody
FOLH1 Antibody (N-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of FOLH1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Immunofluorescence (IF) of anti-FOLH1 antibody
Confocal immunofluorescent analysis of FOLH1 Antibody (N-term) with ZR-75-1 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green).DAPI was used to stain the cell nuclear (blue).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FOLH1. It may not necessarily be applicable to this product.

NCBI GI #	301500668
NCBI GeneID	2346
NCBI Accession #	NP_001180400.1
NCBI Related Accession #	NP_001014986.1
UniProt Primary Accession #	Q04609
UniProt Related Accession #	Q04609
GenBank Nucleotide #	NP_001180400.1
NCBI Official Full Name	glutamate carboxypeptidase 2 isoform 3
NCBI Official Synonym Full Names	folate hydrolase 1
NCBI Official Symbol	FOLH1
NCBI Official Synonym Symbols	PSM; FGCP; FOLH; GCP2; PSMA; mGCP; GCPII; NAALAD1; NAALAdase
UniProt Protein Name	Glutamate carboxypeptidase 2
UniProt Synonym Protein Names	Cell growth-inhibiting gene 27 protein; Folate hydrolase 1; Folylpoly-gamma-glutamate carboxypeptidase; FGCP; Glutamate carboxypeptidase II; GCPII; Membrane glutamate carboxypeptidase; mGCP; N-acetylated-alpha-linked acidic dipeptidase I; NAALADase I; Prostate-specific membrane antigen; PSM; PSMA; Pteroylpoly-gamma-glutamate carboxypeptidase
Protein Family	Glutamate carboxypeptidase
UniProt Gene Name	FOLH1
UniProt Synonym Gene Names	FOLH; NAALAD1; PSM; PSMA; FGCP; GCPII; mGCP; NAALADase I; PSM; PSMA
UniProt Entry Name	FOLH1_HUMAN
NCBI Protein Information	glutamate carboxypeptidase 2
NCBI Summary for FOLH1	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]
UniProt Comments for FOLH1	FOLH1: Has both folate hydrolase and N-acetylated-alpha-linked- acidic dipeptidase (NAALADase) activity. Has a preference for tri- alpha-glutamate peptides. In the intestine, required for the uptake of folate. In the brain, modulates excitatory neurotransmission through the hydrolysis of the neuropeptide, N- aceylaspartylglutamate (NAAG), thereby releasing glutamate. Isoform PSM-4 and isoform PSM-5 would appear to be physiologically irrelevant. Involved in prostate tumor progression. Belongs to the peptidase M28 family. M28B subfamily. 8 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; EC 3.4.17.21; Protease Chromosomal Location of Human Ortholog: 11p11.2 Cellular Component: membrane; integral to plasma membrane; cytoplasm Molecular Function: peptidase activity; dipeptidase activity; metallopeptidase activity; carboxypeptidase activity; metal ion binding Biological Process: folic acid and derivative metabolic process; proteolysis

Research Articles on FOLH1	**1.** Medullary thyroid cancer patients with a higher number of PSMA-positive microvessels showed favorable prognosis.
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