

Product Name: KO-Validated FOLH1 Mouse Monoclonal Antibody**Catalog #: KVA01893**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000
Molecular Weight	Calculated MW: 84.3kDa

Antigen Information

Gene Name	FOLH1 FOLH1; Folate Hydrolase 1; NAALAD1; GCP11; PSMA; PSM; Glutamate Carboxypeptidase 2; GCP2; FOLH; N-Acetylated-Alpha-Linked Acidic Dipeptidase 1; Pteroylpoly-Gamma-Glutamate Carboxypeptidase; Folylpoly-Gamma-Glutamate Carboxypeptidase; Cell Growth-
Alternative Names	Inhibiting Gene 27 Protein; Membrane Glutamate Carboxypeptidase; Glutamate Carboxypeptidase II; Glutamate Carboxylase II; EC 3.4.17.21; NAALADase I; NAALADase; FGCP; MGCP; Folate Hydrolase (Prostate-Specific Membrane Antigen) 1; N-Acetylated Alpha-Linked Acidic Dipeptidase 1; Prostate-Specific Membrane Antigen
Gene ID	2346.0
SwissProt ID	Q04609
Immunogen	Recombinant protein of human FOLH1

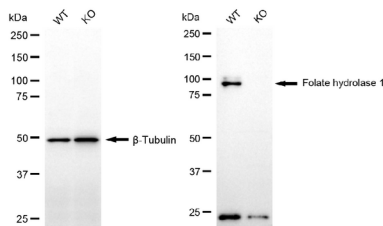
Background

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]

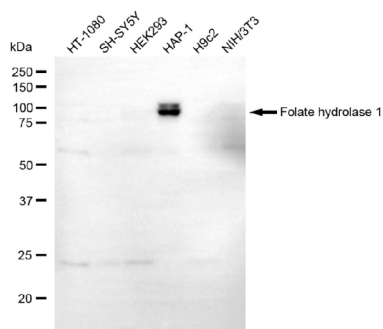
Research Area

Signal Transduction,Cancer,Metabolism

Image Data



Western blotting analysis using folate hydrolase 1 antibody (KVA01893). Folate hydrolase 1 expression in wild-type (WT) and folate hydrolase 1 (FOLH1) knockout (KO) HSHC cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with folate hydrolase 1 antibody (KVA01893, 1:1,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using folate hydrolase 1 antibody (KVA01893). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with folate hydrolase 1 antibody (KVA01893, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.