Recombinant Full Length Human FOLH1 Protein, GST-tagged

Cat. No. FOLH1-5034HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human FOLH1 full-length ORF (NP_001014986.1, 1 a.a. - 719 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	719 amino acids
Description	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. [provided by RefSeq
Molecular Mass	107 kDa
AA Sequence	MWNLLHETDSAVATARRPRWLCAGALVLAGGFFLLGFLFGWFIKSSNEATNITPKHN

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	MKAFLDELKAENIKKFLYNFTQIPHLAGTEQNFQLAKQIQSQWKEFGLDSVELAHYD VLLSYPNKTHPNYISIINEDGNEIFNTSLFEPPPPGYENVSDIVPPFSAFSPQGMPEGD LVYVNYARTEDFFKLERDMKINCSGKIVIARYGKVFRGNKVKNAQLAGAKGVILYSDP ADYFAPGVKSYPDGWNLPGGGVQRGNILNLNGAGDPLTPGYPANEYAYRRGIAEA VGLPSIPVHPIGYYDAQKLLEKMGGSAPPDSSWRGSLKVPYNVGPGFTGNFSTQKV KMHIHSTNEVTRIYNVIGTLRGAVEPDRYVILGGHRDSWVFGGIDPQSGAAVVHEIVR SFGTLKKEGWRPRRTILFASWDAEEFGLLGSTEWAEENSRLLQERGVAYINADSSIE GNYTLRVDCTPLMYSLVHNLTKELKSPDEGFEGKSLYESWTKKSPSPEFSGMPRIS KLGSGNDFEVFFQRLGIASGRARYTKNWETNKFSGYPLYHSVYETYELVEKFYDPM FKYHLTVAQVRGGMVFELANSIVLPFDCRDYAVVLRKYADKIYSISMKHPQEMKTYS VSFDSLFSAVKNFTEIASKFSERLQDFDKSKHVIYAPSSHNKYAGESFPGIYDALFDIE SKVDPSKAWGEVKRQIYVAAFTVQAAAETLSEVA
Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	FOLH1 folate hydrolase (prostate-specific membrane antigen) 1 [Homo sapiens]
Official Symbol	FOLH1
Synonyms	FOLH1; folate hydrolase (prostate-specific membrane antigen) 1; FOLH; glutamate

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	carboxypeptidase 2; GCP2; GCPII; glutamate carboxylase II; glutamate carboxypeptidase II; NAALAD1; NAALAdase; PSM; PSMA; NAALADase I; membrane glutamate carboxypeptidase; cell growth-inhibiting gene 27 protein; folylpoly-gamma-glutamate carboxypeptidase; prostate specific membrane antigen variant F; pteroylpoly-gamma-glutamate carboxypeptidase; N-acetylated alpha-linked acidic dipeptidase 1; N-acetylated-alpha-linked acidic dipeptidase I; FGCP; mGCP;
Gene ID	2346
mRNA Refseq	NM_001014986
Protein Refseq	NP_001014986
MIM	600934
UniProt ID	Q04609

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