



Anti-FOLH1 (aa 547-656) polyclonal antibody (DPAB-DC1108)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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 encoding several different isoforms.

Immunogen

FOLH1 (AAH25672, 547 a.a. ~ 656 a.a) partial recombinant protein with GST tag. The sequence is
SGYPLYHSVYETYELVEKFYDPMFKYHLTVAVRGGMVFELANSIVLPFDCRDYAVVLRK
YADKIYSISMKHPQEMKTYSVSDLSLFSAVKNFTEIASKFSERLQDFDKS

Source/Host

Mouse

Species Reactivity

Human

Conjugate

Unconjugated

Applications

WB (Recombinant protein), ELISA,

Size

50 µl

Buffer

50 % glycerol

Preservative

None

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	FOLH1 folate hydrolase (prostate-specific membrane antigen) 1 [Homo sapiens (human)]
Official Symbol	FOLH1
Synonyms	FOLH1; folate hydrolase (prostate-specific membrane antigen) 1; PSM; FGCP; FOLH; GCP2; PSMA; mGCP; GCPII; NAALAD1; NAALAdase; glutamate carboxypeptidase 2; NAALADase I; glutamate carboxylase II; glutamate carboxypeptidase II; 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;
Entrez Gene ID	2346
Protein Refseq	NP_001014986
UniProt ID	Q04609
Chromosome Location	11p11.2
Pathway	Alanine, aspartate and glutamate metabolism; Vitamin digestion and absorption;
Function	carboxypeptidase activity; dipeptidase activity; metal ion binding; metallopeptidase activity