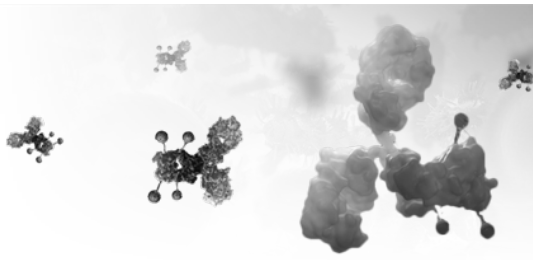

Anti-FOLH1 monoclonal antibody, clone ZQTNB2 (CABT-20172MH)

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. Mouse monoclonal antibody raised against native FOLH1.
Specificity	This antibody is reactive to PSMA expressed LNCap cell lines. Little or no cross-reactivity to benign prostate hyperplasia (BPH) or to normal prostatic tissue.
Immunogen	Crude membrane protein preparation from pooled prostate malignant carcinoma
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	Human, others not tested
Clone	ZQTNB2
Purification	Protein G affinity purified
Conjugate	Unconjugated

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Applications	IHC, ELISA, WB
Reconstitution	Double distilled water is recommended to adjust the final concentration to 1.00mg/mL.
Format	Lyophilized
Size	500 µg
Buffer	Lyophilized from a solution in 0.01M PBS, pH 7.0
Preservative	None
Storage	2 to 8°C; Maintain at -70°C for up to 12 months, Avoid repeated freeze/thaw cycle.

GENE INFORMATION

Gene Name	FOLH1 folate hydrolase (prostate-specific membrane antigen) 1 [Homo sapiens]
Official Symbol	FOLH1
Synonyms	folate hydrolase (prostate-specific membrane antigen) 1; Prostate-specific membrane antigen; PSM; Pteroylpoly-gamma-glutamate carboxypeptidase; PSMA; FGCP; GCPII; mGCP; NAALAD1; N-acetylated-alpha-linked acidic dipeptidase I; FOLH; NAALADase I; GCP2; EC 3.4.17.21; NAALAdase; cell growth-inhibiting protein 27; Cell growth-inhibiting gene 27 protein; glutamate carboxylase II; Folate hydrolase 1; glutamate carboxypeptidase 2; Folylpoly-gamma-glutamate carboxypeptidase; N-acetylated alpha-linked acidic dipeptidase 1; Glutamate carboxypeptidase II; prostate specific membrane antigen variant F; Membrane glutamate carboxypeptidase; OTTHUMP00000233840; OTTHUMP00000233841; OTTHUMP00000233843; OTTHUMP00000233844
Entrez Gene ID	2346
Protein Refseq	NP_001014986
UniProt ID	Q04609
Chromosome Location	11p11.2
Pathway	One Carbon Metabolism, organism-specific biosystem; Vitamin digestion and absorption, organism-specific biosystem; Vitamin digestion and absorption, conserved biosystem
Function	carboxypeptidase activity; dipeptidase activity; metal ion binding; metallopeptidase activity; peptidase activity

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