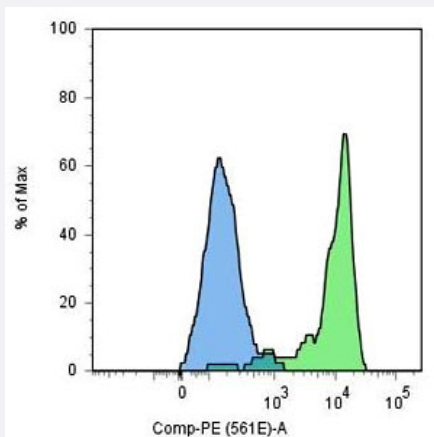


FOLH1 monoclonal antibody, clone GCP-05 (PE)

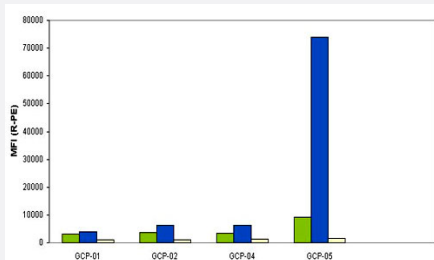
Catalog # MAB6477 Size 100 ug

Applications



Flow Cytometry

Flow cytometric analysis of FOLH1 using FOLH1 monoclonal antibody, clone GCP-05 (Cat # MAB3611) and FOLH1 monoclonal antibody, clone GCP-05 (PE) (Cat # MAB6477) on LNCaP cell line (positive, green) and HeLa cells (negative, blue).



Flow Cytometry

Flow cytometric analysis of FOLH1 by various monoclonal antibodies (GCP-01, GCP-02, GCP-04, GCP-05) on LNCaP cell line.

Legend :

green column - 1 ug/mL , LNCaP cell line.

blue column - 5 ug/mL , LNCaP cell line.

yellow column - negative cell line.

Specification

Product Description	Mouse monoclonal antibody raised against FOLH1.
Immunogen	Amino acids 44-750 of human FOLH1.
Host	Mouse
Reactivity	Human

Specificity	This antibody recognizes extracellular domain of glutamate carboxy peptidase II (NAALADase, FOLH1, PSMA), an approximately 95-110 KDa transmembrane glycoprotein expressed mainly in tumour neovasculatures, nervous system and jejunum, which is an important prostate tumour marker.
Form	Liquid
Conjugation	PE
Concentration	0.1 mg/mL
Isotype	IgG1
Recommend Usage	Flow Cytometry (1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.2% BSA, 0.09% sodium azide)
Storage Instruction	Store in the dark at 4°C. Do not freeze. Avoid prolonged exposure to light. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

● Flow Cytometry

Flow cytometric analysis of FOLH1 using FOLH1 monoclonal antibody, clone GCP-05 (Cat # MAB3611) and FOLH1 monoclonal antibody, clone GCP-05 (PE) (Cat # MAB6477) on LNCaP cell line (positive, green) and HeLa cells (negative, blue).

● Flow Cytometry

Flow cytometric analysis of FOLH1 by various monoclonal antibodies (GCP-01, GCP-02, GCP-04, GCP-05) on LNCaP cell line.
Legend :
green column - 1 ug/mL , LNCaP cell line.
blue column - 5 ug/mL , LNCaP cell line.
yellow column - negative cell line.

Gene Info — FOLH1

Entrez GeneID	2346
Gene Name	FOLH1
Gene Alias	FGCP, FOLH, GCP2, GCPII, NAALAD1, NAALADase, PSM, PSMA, mGCP

Gene Description	folate hydrolase (prostate-specific membrane antigen) 1
Omim ID	600934
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	N-acetylated alpha-linked acidic dipeptidase 1 cell growth-inhibiting protein 27 folate hydrolase 1 folypoly-gamma-glutamate carboxypeptidase glutamate carboxylase III glutamate carboxypeptidase III membrane glutamate carboxypeptidase prostate specific mem

Publication Reference

- [Expression of glutamate carboxypeptidase II in human brain.](#)

Sacha P, Zamecnik J, Barinka C, Hlouchova K, Vicha A, Mlcochova P, Hilgert I, Eckschlagner T, Konvalinka J.
Neuroscience 2007 Feb; 144(4):1361.

- [Identification of the N-glycosylation sites on glutamate carboxypeptidase II necessary for proteolytic activity.](#)

Barinka C, Sacha P, Sklenar J, Man P, Bezouska K, Slusher BS, Konvalinka J.
Protein Science 2004 Jun; 13(6):1627.

Application: WB-Tr, Insect, S2 cells

- [Amino acids at the N- and C-termini of human glutamate carboxypeptidase II are required for enzymatic activity and proper folding.](#)

Barinka C, Mlcochova P, Sacha P, Hilgert I, Majer P, Slusher BS, Horejsi V, Konvalinka J.
European Journal of Biochemistry 2004 Jul; 271(13):2782.

Disease

- [Aortic Aneurysm](#)

- [Atherosclerosis](#)
- [Brain Ischemia](#)
- [Cardiovascular Diseases](#)
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- [Colorectal Neoplasms](#)
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