10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FOLH1 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5068c

Specification

FOLH1 Antibody (Center) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q04609
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**155-183**

FOLH1 Antibody (Center) - Additional Information

Gene ID 2346

Other Names
Putative N-acetylated-alpha-linked acidic dipeptidase, NAALADase, 34--, Cell growth-inhibiting gene 26 protein, Prostate-specific membrane antigen-like protein, Putative folate hydrolase 1B, FOLH1B, PSMAL

Target/Specificity
This FOLH1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 155-183 amino acids from the central region of human FOLH1.

Dilution
WB~~1:1000
IHC-P~~1:25
FC~~1:10~50
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
FOLH1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

FOLH1 Antibody (Center) - Protein Information

Name FOLH1 (HGNC:3788)

Synonyms FOLH, NAALAD1, PSM, PSMA

Function Has both folate hydrolase and N-acetylated-alpha-linked- acidic dipeptidase (NAALADase) activity. Has a preference for tri- alpha-glutamate peptides. In the intestine, required for the uptake of folate. In the brain, modulates excitatory neurotransmission through the hydrolysis of the neuropeptide, N-aceylaspartylglutamate (NAAG), thereby releasing glutamate. Involved in prostate tumor progression.

Cellular Location
Cell membrane; Single-pass type II membrane protein

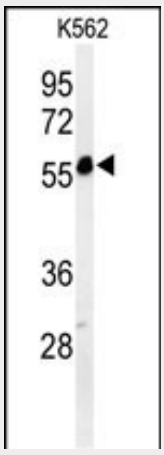
Tissue Location
Highly expressed in prostate epithelium. Detected in urinary bladder, kidney, testis, ovary, fallopian tube, breast, adrenal gland, liver, esophagus, stomach, small intestine, colon and brain (at protein level). Detected in the small intestine, brain, kidney, liver, spleen, colon, trachea, spinal cord and the capillary endothelium of a variety of tumors. Expressed specifically in jejunum brush border membranes. In the brain, highly expressed in the ventral striatum and brain stem. Also expressed in fetal liver and kidney Isoform PSMA' is the most abundant form in normal prostate. Isoform PSMA-1 is the most abundant form in primary prostate tumors. Isoform PSMA-9 is specifically expressed in prostate cancer

FOLH1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

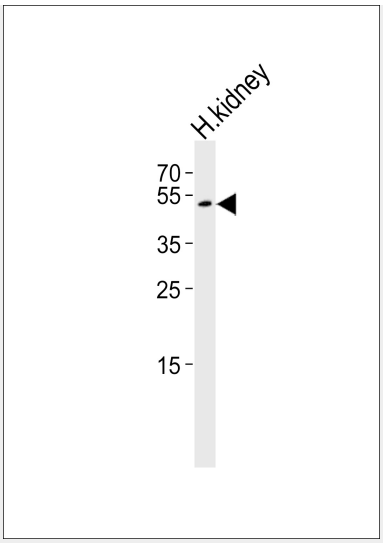
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FOLH1 Antibody (Center) - Images

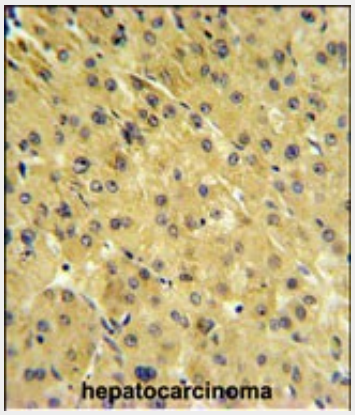


Western blot analysis of FOLH1 Antibody (Center) (Cat. #AP5068c) in K562 cell line lysates (35ug/lane). FOLH1(arrow) was detected using the purified Pab.

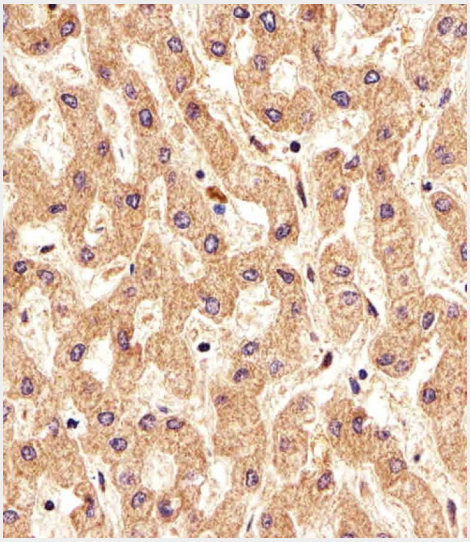
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Western blot analysis of lysate from human kidney tissue lysate, using FOLH1 Antibody (Center)(Cat. #AP5068c). AP5068c was diluted at 1:1000. A goat anti-rabbit IgG H&L (HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 35ug.

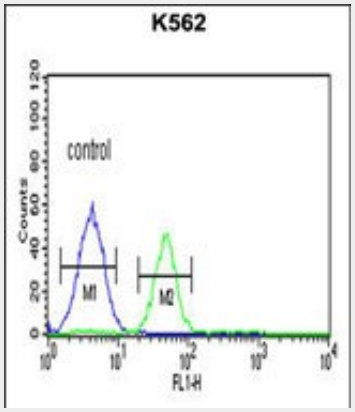


FOLH1 Antibody (Center) (Cat. #AP5068c) IHC analysis in formalin fixed and paraffin embedded hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the FOLH1 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Immunohistochemical analysis of paraffin-embedded H. liver section using FOLH1 Antibody (Center)(Cat#AP5068c). AP5068c was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.



FOLH1 Antibody (Center) (Cat. #AP5068c) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

FOLH1 Antibody (Center) - Background

PSMAL has both folate hydrolase and N-acetylated-alpha-linked-acidic dipeptidase (NAALADase) activity (By similarity). PSMAL exhibits a dipeptidyl-peptidase IV type activity

FOLH1 Antibody (Center) - References

O'Keefe, D.S., et al. Prostate 58(2):200-210(2004)
O'Keefe, D.S., et al. Biochim. Biophys. Acta 1443 (1-2), 113-127 (1998)
Maraj, B.H., et al. Cytogenet. Cell Genet. 81(1):3-9(1998)