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FOLH1 / PSMA Antibody (clone 5C4)

Mouse Monoclonal Antibody
Catalog # ALS16462

Specification

FOLH1 / PSMA Antibody (clone 5C4) - Product Information

Application	**IHC**
Primary Accession	Q04609
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Calculated MW	**84kDa KDa**

FOLH1 / PSMA Antibody (clone 5C4) - Additional Information

Gene ID 2346

Other Names
Glutamate carboxypeptidase 2, 3.4.17.21, Cell growth-inhibiting gene 27 protein, Folate hydrolase 1, Folylpoly-gamma-glutamate carboxypeptidase, FGCP, Glutamate carboxypeptidase II, GCPII, Membrane glutamate carboxypeptidase, mGCP, N-acetylated-alpha-linked acidic dipeptidase I, NAALADase I, Prostate-specific membrane antigen, PSM, PSMA, Pteroylpoly-gamma-glutamate carboxypeptidase, FOLH1, FOLH, NAALAD1, PSM, PSMA

Target/Specificity
Human PSMA

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
FOLH1 / PSMA Antibody (clone 5C4) is for research use only and not for use in diagnostic or therapeutic procedures.

FOLH1 / PSMA Antibody (clone 5C4) - 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

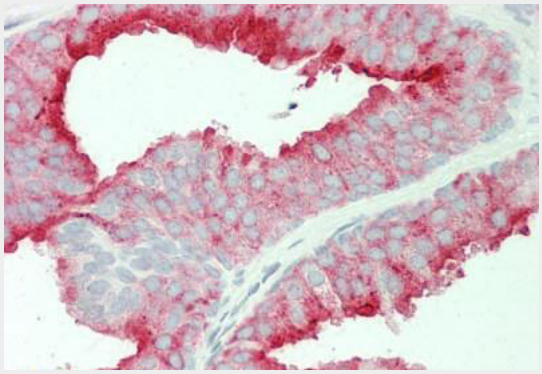
Volume
50 µl

FOLH1 / PSMA Antibody (clone 5C4) - 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 / PSMA Antibody (clone 5C4) - Images



Human Prostate: Formalin-Fixed, Paraffin-Embedded (FFPE)

FOLH1 / PSMA Antibody (clone 5C4) - Background

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. Isoform PSM-4 and isoform PSM-5 would appear to be physiologically irrelevant. Involved in prostate tumor progression.

FOLH1 / PSMA Antibody (clone 5C4) - References

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Su S.L.,et al.Cancer Res. 55:1441-1443(1995).
O'Keefe D.S.,et al.Biochim. Biophys. Acta 1443:113-127(1998).
Luthi-Carter R.,et al.J. Pharmacol. Exp. Ther. 286:1020-1025(1998).
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