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Product datasheet for AM20502PU-N

PSMA (FOLH1) Mouse Monoclonal Antibody [Clone ID: Y-PSMA2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	Y-PSMA2
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	**ELISA**. **Immunofluorescence**. **Immunohistochemistry on Frozen Sections**. **Immunohistochemistry on Paraffin Sections:** 10 µg/ml. **Western Blot**.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	FOLH1 antibody was raised against crude membrane protein preparation from pooled prostate malignant carcinoma from China.
Specificity:	This antibody recognizes Human PSMA expressed LNCap cell lines. Little or no cross-reactivity to benign prostate hyperplasia (BPH) or to normal prostatic tissue.
Formulation:	PBS, pH 7.0 State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein G Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	folate hydrolase (prostate-specific membrane antigen) 1
Database Link:	Entrez Gene 2346 Human Q04609

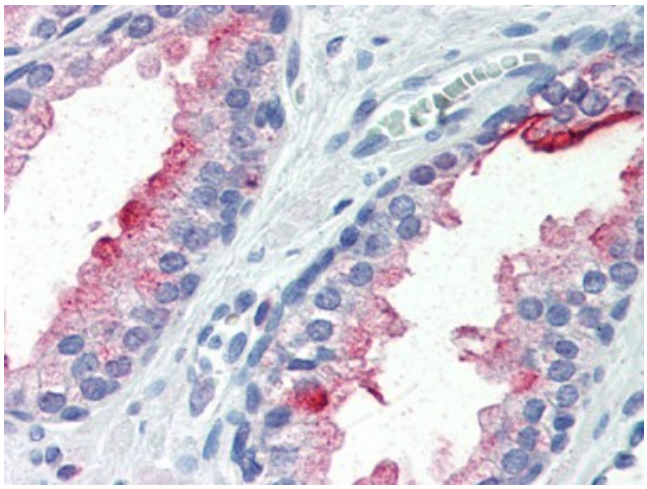
View online »

Background: 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.

Synonyms: Glutamate carboxypeptidase 2, Folate hydrolase 1, Prostate-specific membrane antigen, FOLH, NAALAD1, PSM, GCP2, NAALAdase

Protein Families: Druggable Genome, Protease, Transmembrane

Product images:



Formalin-Fixed, Paraffin-Embedded Human Prostate stained with FOLH1 antibody at 10 ug/ml after heat-induced antigen retrieval.