PSMA Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	PSMA, Monoclonal Antibody
Full Product Name	Anti PSMA mouse monoclonal antibody
Product Gene Name	anti-PSMA antibody
Product Synonym Names	FOLH1; FOLH; NAALAD1; PSM; PSMA; GIG27
Clonality	Monoclonal
Isotype	IgG1
Clone Number	11-H4-A4-C6
Host	Mouse
Species Reactivity	Human
Form/Format	Liquid. Supplied as solution form in PBS, pH7.4, containing 0.05% proclin300, 50% glycerol.
Purity/Purification	Protein G purified from mice ascites
Preparation and Storage	Store at 4 degree C for frequent use. Store at -20 to -80 degree C for twelve months from the date of receipt. Use a manual defrost freezer and avoid repeated freeze thaw cycles.
Molecular Weight	84kDa
OMIM	600934
3D Structure	ModBase 3D Structure for Q04609
Immunogen	Recombinant protein of human ACRV1
Product Categories/Family for anti-PSMA antibody	Monoclonal antibodies
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-PSMA antibody	MBS157801 is an antibody targeting PSMA. Also known as Anti PSMA mouse monoclonal antibody. Reactive in Human. Host: Mouse.
Other Notes	Small volumes of anti-PSMA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PSMA. It may not necessarily be applicable to this product.

NCBI GI #	548615
NCBI GeneID	2346
NCBI Accession #	Q04609.1
UniProt Primary Accession #	Q04609
UniProt Secondary Accession #	O43748; Q16305; Q541A4; Q8TAY3; Q9NP15; A4UU12; A9CB79; B7Z312; B7Z343; D3DQS5; E9PDX8
UniProt Related Accession #	Q04609

NCBI Official Full Name	Glutamate carboxypeptidase 2
NCBI Official Synonym Full Names	folate hydrolase (prostate-specific membrane antigen) 1
NCBI Official Symbol	FOLH1
NCBI Official Synonym Symbols	PSM; FGCP; FOLH; GCP2; PSMA; mGCP; GCPII; NAALAD1; NAALAdase
UniProt Protein Name	Glutamate carboxypeptidase 2
UniProt Synonym Protein Names	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
UniProt Gene Name	FOLH1
UniProt Synonym Gene Names	FOLH; NAALAD1; PSM; PSMA; FGCP; GCPII; mGCP; NAALADase I; PSM; PSMA
UniProt Entry Name	FOLH1_HUMAN
NCBI Protein Information	glutamate carboxypeptidase 2; NAALADase I; glutamate carboxylase II; glutamate carboxypeptidase II; membrane glutamate carboxypeptidase; cell growth-inhibiting gene 27 protein; folylpoly-gamma-glutamate carboxypeptidase; prostate specific membrane antigen
NCBI Summary for PSMA	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. [provided by RefSeq, Jul 2010]
UniProt Comments for PSMA	FOLH1: 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. Belongs to the peptidase M28 family. M28B subfamily. 8 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral; EC 3.4.17.21; Protease Chromosomal Location of Human Ortholog: 11p11.2 Cellular Component: membrane; integral to plasma membrane; cytoplasm Molecular Function: peptidase activity; dipeptidase activity; metallopeptidase activity; carboxypeptidase activity; metal ion binding Biological Process: folic acid and derivative metabolic process; proteolysis
Research Articles on PSMA	**1.** PSMA expression may be correlated with nanog's expression as well as with other confounders in a population of prostate CSCs.
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