

ARG10088 anti-GCPII / PSMA antibody [YPSMA-1]

Package: 250 µg, 125 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [YPSMA-1] recognizes GCPII / PSMA
Tested Reactivity	Hu
Tested Application	ELISA, FACS, ICC/IF, IHC-Fr, IHC-P, WB
Specificity	Little or no cross-reactivity to benign prostate hyperplasia (BPH) or to normal prostatic tissue.
Host	Mouse
Clonality	Monoclonal
Clone	YPSMA-1
Isotype	IgG2b,k
Target Name	GCPII / PSMA
Antigen Species	Human
Immunogen	Crude membrane protein preparation from pooled prostate malignant carcinoma from China.
Conjugation	Un-conjugated
Alternate Names	FGCP; GCP2; PSM; Glutamate carboxypeptidase II; PSMA; NAALADase I; Membrane glutamate carboxypeptidase; Prostate-specific membrane antigen; FOLH; N-acetylated-alpha-linked acidic dipeptidase I; GCPII; Glutamate carboxypeptidase 2; NAALADase; NAALAD1; Folate hydrolase 1; EC 3.4.17.21; Folylpoly-gamma-glutamate carboxypeptidase; mGCP; Cell growth-inhibiting gene 27 protein; Pteroylpoly-gamma-glutamate carboxypeptidase

Application Instructions

Application table	Application	Dilution
	ELISA	Assay-dependent
	FACS	Assay-dependent
	ICC/IF	Assay-dependent
	IHC-Fr	Assay-dependent
	IHC-P	Assay-dependent
	WB	Assay-dependent
Application Note	<p>Immuno-histochemistry: This antibody was used on formalin-fixed paraffin embedded and frozen tissue sections.</p> <p>Indirect ELISA: This antibody is reactive to PSMA expressing LNCap cells coated ELISA plate.</p> <p>Western blot: The antibody, when used at 1µg/ml concentration, identified the 100KDa PSMA in LNCap cell extract.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>	

Properties

Form	Liquid
Purification	Protein G affinity purified
Buffer	0.01M PBS (pH 7.0)
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 2346 Human Swiss-port # Q04609 Human
Gene Symbol	FOLH1
Gene Full Name	folate hydrolase (prostate-specific membrane antigen) 1
Background	Prostate specific membrane antigen (PSMA) is a type II trans-membrane glycoprotein found in the epithelium of prostate. It is also detectable in duodenal mucosa, renal tubules and some neuroendocrine cells. In other normal tissue, PSMA expression is not detectable. Because the expression of this membrane is elevated in malignant prostate tumour, PSMA has been used as a marker as well as a therapeutic target for prostate cancer. Elevated PSMA expression has also been identified in metastases of lymph nodes.
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. Isoform PSM-4 and isoform PSM-5 would appear to be physiologically irrelevant. Involved in prostate tumor progression. Also exhibits a dipeptidyl-peptidase IV type activity. In vitro, cleaves Gly-Pro-AMC. [UniProt]
Resrarch Area	Cancer antibody; Metabolism antibody; Signaling Transduction antibody