

PSMA Monoclonal Antibody (GCP-05), Alexa Fluor™ 488

Catalog NumberMA5-18161

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human
Host/Isotope	Mouse / IgG1	Tested Applications	
Class	Monoclonal	Flow Cytometry (Flow)	Dilution *5 µg/mL
Type	Antibody	Immunocytochemistry (ICC/IF)	Assay-dependent
Clone	GCP-05	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Immunogen	Amino acids 44-750 of human GCPII		
Conjugate	Alexa Fluor™ 488		
Form	Liquid		
Concentration	1.0 mg/mL		
Purification	Size-exclusion chromatography		
Storage buffer	PBS, pH 7.4		
Contains	15mM sodium azide		
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

Product specific information

This antibody recognizes an extracellular domain, preferentially in native form, of glutamate carboxypeptidase II.

Background/Target Information

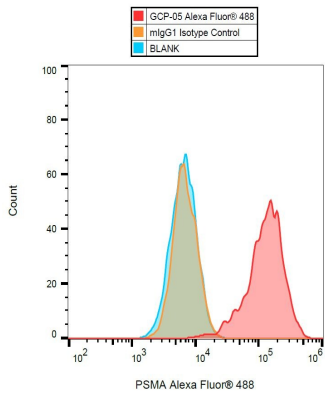
This gene encodes a type II transmembrane glycoprotein belonging to the M28 peptidase family. The protein acts as a glutamate carboxypeptidase on different alternative substrates, including the nutrient folate and the neuropeptide N-acetyl-l-aspartyl-l-glutamate and is expressed in a number of tissues 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.

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PSMA Antibody (MA5-18161) in Flow

Flow cytometry analysis (surface staining) of GCPII / PSMA using anti-GCPII (GCP-05) Alexa Fluor® 488 Monoclonal antibody (Product # MA5-18161) on LNCaP cell line.

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