

For Research Use Only

# PSMA/GCPII Monoclonal antibody

Catalog Number: 66678-1-Ig **2 Publications**



## Basic Information

<b>Catalog Number:</b> 66678-1-Ig	<b>GenBank Accession Number:</b> BC025672	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 2346	<b>CloneNo.:</b> 3G4E12
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q04609	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:1000-1:4000 IF-P 1:200-1:800 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> folate hydrolase (prostate-specific membrane antigen) 1	
<b>Immunogen Catalog Number:</b> AG16594	<b>Calculated MW:</b> 719 aa, 81 kDa	
	<b>Observed MW:</b> 100-120 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, IF-P, ELISA	<b>Positive Controls:</b> <b>WB :</b> rat kidney tissue, LNCaP cells, mouse kidney tissue, rat brain tissue, mouse brain tissue <b>IHC :</b> human prostate cancer tissue, <b>IF-P :</b> human prostate cancer tissue, PC-3 cells <b>IF/ICC :</b> PC-3 cells,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human, rat	
<b>Cited Species:</b> human	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

PSMA(Prostate-specific membrane antigen) is also named as FOLH1, FOLH, NAALAD1, PSM and belongs to the peptidase M28 family. PSMA is a 100-120 kDa integral transmembrane glycoprotein, considered to be a highly specific marker of the prostate gland, and has successfully been used as a marker of circulating prostatic epithelial cells(PMID:10074909; 15680901). It is involved in conversion of the major neurotransmitter (NAAG) to NAA and free glutamate. It has 8 isoforms produced by alternative splicing.

## Notable Publications

Author	Pubmed ID	Journal	Application
Liyuan Yin	31988304	Sci Rep	WB
Alexander Kirschenbaum	39584003	Am J Clin Exp Urol	WB

## Storage

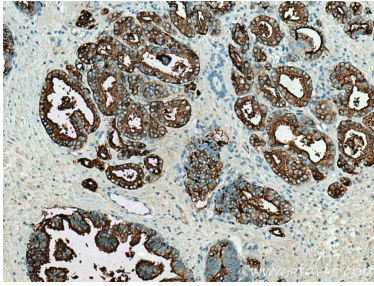
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

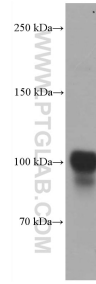
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

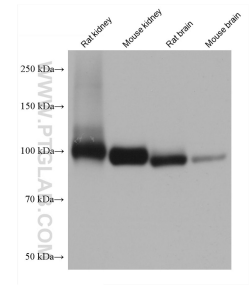
## Selected Validation Data



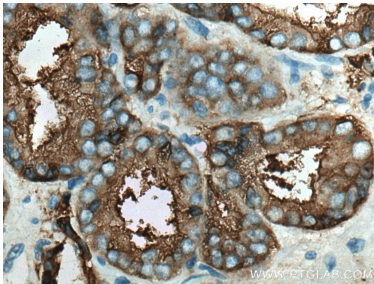
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66678-1-Ig (PSMA/GCPII antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



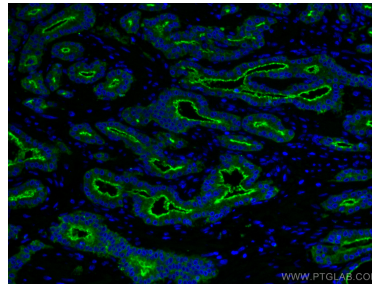
LNCaP cells were subjected to SDS PAGE followed by western blot with 66678-1-Ig (FOLH1 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



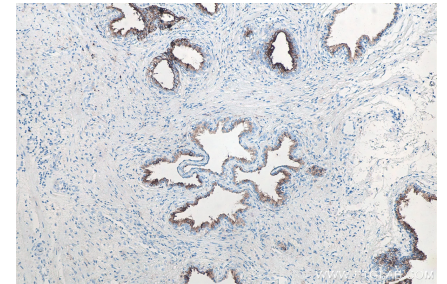
Various lysates were subjected to SDS PAGE followed by western blot with 66678-1-Ig (PSMA/GCPII antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



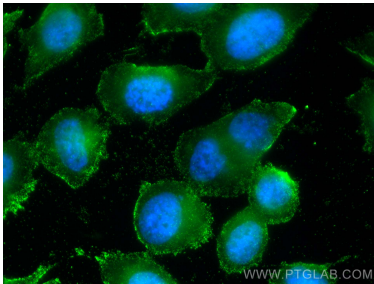
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66678-1-Ig (PSMA/GCPII antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human prostate cancer tissue using PSMA/GCPII antibody (66678-1-Ig, Clone: 3G4E12) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 66678-1-Ig (PSMA/GCPII antibody) at dilution of 1:4000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed PC-3 cells using PSMA/GCPII antibody (66678-1-Ig, Clone: 3G4E12) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).