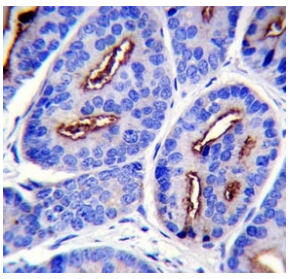
PSMA Antibody / FOLH1 (F43183)

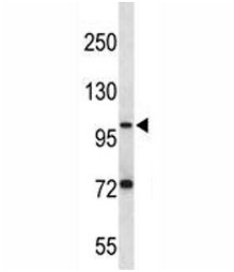
Catalog No.	Formulation	Size
F43183-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F43183-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

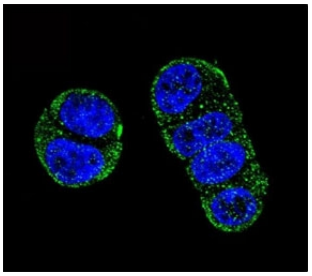
Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse, Pig, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	Q04609
Applications	Western Blot : 1:1000 IHC (Paraffin) : 1:10-1:50 Immunofluorescence : 1:10-1:50
Limitations	This PSMA antibody is available for research use only.



PSMA antibody immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate carcinoma.



PSMA antibody western blot analysis in ZR-75-1 lysate. Observed molecular weight ~ 100 kDa.



Confocal immunofluorescent analysis of PSMA antibody with ZR-75-1 cells followed by Alexa Fluor 488-conjugated goat anti-rabbit lgG (green). DAPI was used as a nuclear counterstain (blue).

Description

GCPII (Glutamate carboxypeptidase 2) also called FOLH1 and PSMA (Prostate-Specific Membrane Antigen) is a zinc metalloenzyme that resides in membranes. Most of the enzyme resides in the extracellular space. GCPII is a class II membrane glycoprotein. It catalyzes the hydrolysis of N-acetylaspartylglutamate (NAAG) to glutamate and N-acetylaspartate (NAA). Neuroscientists primarily use the term NAALADase in their studies, while those studying folate metabolism use folate hydrolase, and those studying prostate cancer or oncology, PSMA. All of which refer to the same protein, glutamate carboxypeptidase II. PSMA is strongly expressed in the human prostate, being a hundredfold greater than the expression in most other tissues. In cancer, it is upregulated in expression and has been called the second-most-upregulated gene in prostate cancer, with increase of 8- to 12-fold over the noncancerous prostate. In human prostate cancer, the higher expressing tumors are associated with quicker time to progression and a greater percentage of patients suffering relapse. [Wiki]

Application Notes

Titration of the PSMA antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 161-190 from the human protein was used as the immunogen for this PSMA antibody.

Storage

Aliquot the PSMA antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.