Datasheet for ABIN657630

anti-PSMA antibody (N-Term)

3 Images

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Overview

Quantity:	400 µL
Target:	PSMA (FOLH1)
Binding Specificity:	AA 161-190, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)

Product Details

Immunogen:	This FOLH1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 161-190 amino acids from the N-terminal region of human FOLH1.
Clone:	RB33647
Isotype:	Ig Fraction
Predicted Reactivity:	M, Pig, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	PSMA (FOLH1)
Alternative Name:	FOLH1 (FOLH1 Products)

Target Details

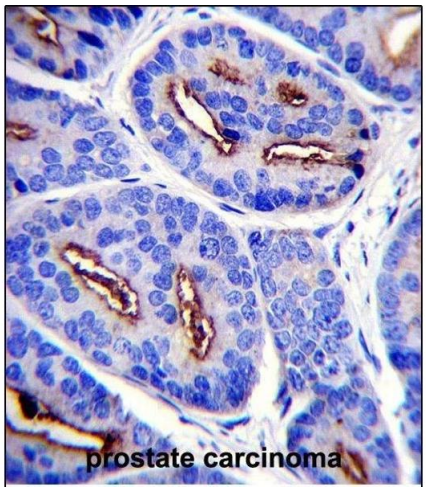
Background:	This gene encodes a type II transmembrane glycoprotein belonging to the M28 peptidase family. The protein acts as a glutamate carboxypeptidase on different alternative substrates, including the nutrient folate and the neuropeptide N-acetyl-l-aspartyl-l-glutamate and is expressed in a number 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.
Molecular Weight:	84331
Gene ID:	2346
NCBI Accession:	NP_001014986, NP_001180400, NP_001180401, NP_001180402, NP_004467
UniProt:	Q04609

Application Details

Application Notes:	IF: 1:10~50. WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

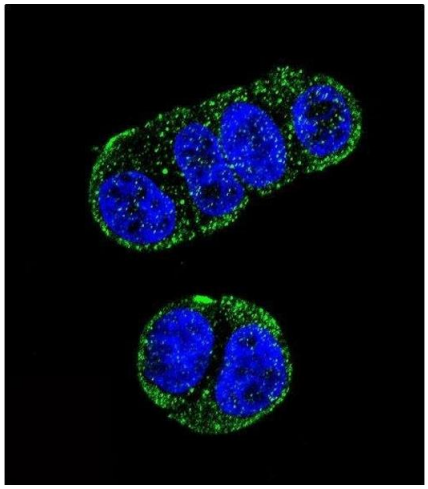
Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	FOLH1 Antibody (N-term) can be refrigerated at 2-8 °C for up to 6 months. For long term storage, place the at -20 °C.
Expiry Date:	6 months



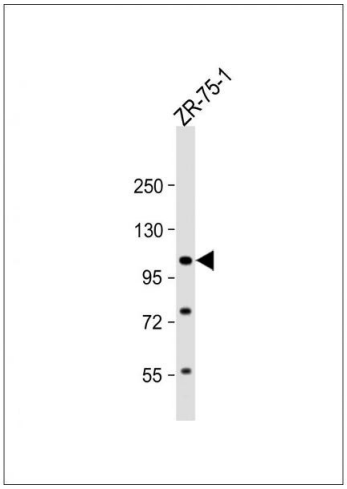
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. FOLH1 Antibody (N-term) (ABIN657630 and ABIN2846626) immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of FOLH1 Antibody (N-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Immunofluorescence

Image 2. Confocal immunofluorescent analysis of FOLH1 Antibody (N-term) (ABIN657630 and ABIN2846626) with ZR-75-1 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DI was used to stain the cell nuclear (blue).



Western Blotting

Image 3. Anti-FOLH1 Antibody (N-term) at 1:1000 dilution + ZR-75-1 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 84 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.