

Datasheet for ABIN452579 **anti-PSMA antibody**



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Overview

Quantity:	0.5 mg
Target:	PSMA (FOLH1)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PSMA antibody is un-conjugated
Application:	Enzyme Immunoassay (EIA)

Product Details

Immunogen:	Crude membrane protein extraction from PSMA expression LNCap cells, and a PSMA derived peptide (ESKVDPSKA) coupled with KLH.
Clone:	7F3
Isotype:	IgG2a
Specificity:	This antibody is reactive to PSMA expression LNCap cells and the KLH conjugated PSMA peptide. Little or no cross-reactivity to KLH and BSA.
Cross-Reactivity (Details):	Species reactivity (tested): Human.
Characteristics:	Synonyms: Glutamate carboxypeptidase 2, Folate hydrolase 1, Prostate-specific membrane antigen, FOLH, NAALAD1, PSM, GCP2, NAALAdase, Glutamate carboxypeptidase II, Membrane glutamate carboxypeptidase, N-acetylated-alpha-linked acidic dipeptidase I, Pteroylpoly-gamma-glutamate carboxypeptidase, Folylpoly-gamma-glutamate carboxypeptidase

Product Details

Purification: Affinity Chromatography on Protein G.

Target Details

Target: PSMA (FOLH1)

Alternative Name: PSMA / FOLH1 ([FOLH1 Products](#))

Background: Prostate Specific Membrane Antigen (PSMA, FOLH1) is a type II transmembrane glycoprotein belonging to the M28 peptidase family. Three functionally distinct proteins are encoded, including folylpoly-gamma-glutamate carboxypeptidase in the intestine, N-acetylated alpha-linked acidic dipeptidase 1 in the brain, and prostate-specific membrane antigen in the prostate. A mutation in the intestinal form may be associated with impaired intestinal absorption of dietary folates, resulting in low blood folate levels and consequent hyperhomocysteinemia. The form expressed in the brain may be involved in a number of pathological conditions associated with glutamate excitotoxicity. The prostate form 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. Synonyms: FOLH, Folate hydrolase 1, Folylpoly-gamma-glutamate carboxypeptidase, GCP2, Glutamate carboxypeptidase 2, Glutamate carboxypeptidase II, Membrane glutamate carboxypeptidase, N-acetylated-alpha-linked acidic dipeptidase I, NAALAD1, NAALAdase, PSM, Prostate-specific membrane antigen, Pteroylpoly-gamma-glutamate carboxypeptidase

Gene ID: 2346

UniProt: [Q04609](#)

Application Details

Application Notes: ELISA.
Other applications not tested.
Optimal dilutions are dependent on conditions and should be determined by the user.

Restrictions: For Research Use only

Handling

Reconstitution: Restore with Double distilled water to adjust the final concentration to 1.0 mg/mL.

Buffer: 0.01 M PBS, pH 7.0, None, None

Handling

Preservative:	Without preservative
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Storage:	-20 °C
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Storage Comment:	Store the antibody (in aliquots) at -20 °C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
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Expiry Date:	12 months
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