

Datasheet for ABIN7543287

Recombinant anti-PSMA antibody



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Overview

Quantity:	200 µg
Target:	PSMA (FOLH1)
Reactivity:	Human
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Chimeric
Conjugate:	This PSMA antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS), Immunofluorescence (IF), Immunoprecipitation (IP)

Product Details

Purpose:	Anti-PSMA [J591], Mouse IgG1, lambda
Immunogen:	The original antibody was generated by immunizing BALB/c mice with LNCaP cells or a primary culture of PCa epithelial cells.
Clone:	J591
Isotype:	IgG1 lambda
Specificity:	This antibody binds the extracellular domain of the human PSMA. Prostate-specific membrane antigen (PSMA) is a type II integral membrane glycoprotein belonging to the M28 peptidase family. It acts as a glutamate carboxypeptidase on different alternative substrate. It is highly expressed in cancerous cells and is used as an effective diagnostic and prognostic indicator of prostate cancer.

Product Details

Characteristics:	Original Species of Ab: Mouse Original Format of Ab: IgG1
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Purification:	Protein A affinity purified
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Target Details

Target:	PSMA (FOLH1)
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Alternative Name:	PSMA (FOLH1 Products)
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Background:	PSM, FOLH1, FOLH, FGCP, GCPII, mGCP, NAALAD1, GIG27, Prostate specific membrane antigen, Glutamate carboxypeptidase 2, Cell growth-inhibiting gene 27 protein, Folate hydrolase 1, Folylpoly-gamma-glutamate carboxypeptidase, Glutamate carboxypeptidase II, Membrane glutamate carboxypeptidase, N-acetylated-alpha-linked acidic dipeptidase I, NAALADase I, Prostate-specific membrane antigen, Pteroylpoly-gamma-glutamate carboxypeptidase
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UniProt:	Q04609
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Application Details

Application Notes:	This antibody was used in the immunohistochemical analysis of PSMA expressed on renal, urothelial, colon, lung, breast carcinomas and metastatic adenocarcinoma of liver. This antibody can also immunoprecipitate PSMA from crude LNCaP lysates (PMID: 9288760). This antibody was also used for the identification of PSMA in a western blot assay. The epitope analysis of this antibody was done using ELISA. This antibody was also used in the immunofluorescence staining of on nonpermeabilized and permeabilized LNCaP cells (PMID: 9288760). This antibody was used in a flow cytometric study for enumeration of circulating prostate microparticles (PMPs), a type of extracellular vesicle (EV) released by prostate cancer present in seminal fluid, urine, and blood may represent a non-invasive means to identify and prioritize patients with intermediate and high risk of prostate cancer (PMID: 26814433). In a phase 1 trial in patients with advanced solid tumor malignancies this antibody showed acceptable toxicity and excellent targeting of known sites of metastases (PMID: 17290063).
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Comment:	This chimeric mouse antibody was made using the variable domain sequences of the original Human IgG1 format for improved compatibility with existing reagents assays and techniques.
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Restrictions:	For Research Use only
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Handling

Concentration:	1 mg/mL
Buffer:	PBS with 0.02 % Proclin 300.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.