abcam

ab247436

Anti-PSMA antibody [EP3253] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EP3253
Purification technique	Affinity purification Protein A
Concentration	0.983 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information FOLH1

Function Has both folate hydrolase and N-acetylated-alpha-linked-acidic dipeptidase (NAALADase) activity. Has a preference for tri-alpha-glutamate peptides. In the intestine, required for the uptake of folate. In the brain, modulates excitatory neurotransmission through the hydrolysis of the neuropeptide, N-aceylaspartylglutamate (NAAG), thereby releasing glutamate. Involved in prostate tumor progression. Also exhibits a dipeptidyl-peptidase IV type activity. In vitro, cleaves Gly-Pro-AMC.

Storage

Shipped at conditions Blue Ice

Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab247436 is the carrier-free version of ab76104.

Species reactivity
Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

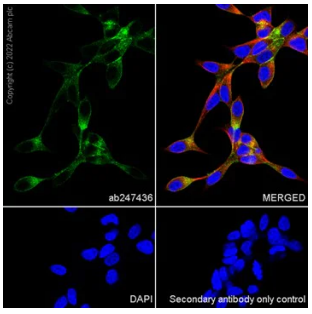
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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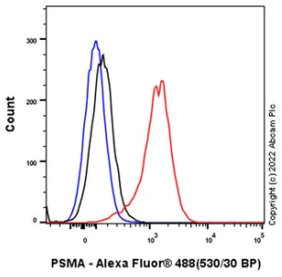
5 product images



Immunocytochemistry/ Immunofluorescence - Anti-PSMA antibody [EP3253] - BSA and Azide free (ab247436)

PSMA Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-PSMA antibody

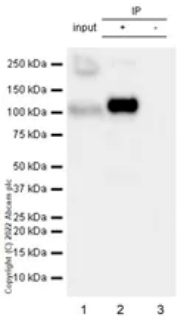
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized LNCaP (human prostate carcinoma epithelial cell) cells labelling PSMA with primary antibody anti-PSMA (ab247436) at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150081) secondary antibody at 1/1000 dilution. Confocal image showing cytoplasmic staining in LNCaP cells. Anti-alpha Tubulin antibody (DM1A) - Microtubule Marker (Alexa Fluor® 594) (ab195889) was used to counterstain tubulin at 1/200 dilution. The nuclear counter stain is DAPI (blue).
Secondary antibody only control : Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-PSMA antibody [EP3253] - BSA and Azide free (ab247436)

PSMA Flow Cytometry (Intracellular) staining using rabbit Anti-PSMA antibody

Intracellular Flow Cytometry analysis of LNCaP (Human prostate carcinoma epithelial cell) cells labeling PSMA with ab247436 at 1/100 dilution (1 µg) (Red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Goat anti-rabbit IgG (Alexa Fluor® 488, ab150077) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (ab172730) (Black). Unlabeled control - cell without incubation with primary antibody and secondary antibody (Blue).



Immunoprecipitation - Anti-PSMA antibody [EP3253] - BSA and Azide free (ab247436)

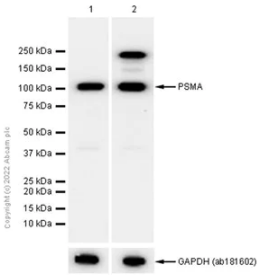
PSMA was immunoprecipitated from LNCaP whole cell lysate, 10 µg with ab247436 at 1/50 dilution (2 µg in 0.35 mg lysates). Western blot was performed on the immunoprecipitate using ab247436 at 1/1000 dilution. VeriBlot for IP secondary antibody (HRP) (ab131366) was used at 1/5000 dilution. Lane 1: LNCaP (human prostate carcinoma epithelial cell) whole cell lysate 10µg. Lane 2 : LNCaP whole cell lysate. Lane 3 : Rabbit monoclonal IgG (ab172730) instead of ab247436 in LNCaP whole cell lysate. Blocking and dilution buffer and concentration : 5% NFDM/TBST. Observed MW : 100 kDa Exposure : 3 seconds
All lanes:
Immunoprecipitation - Anti-PSMA antibody [EP3253] - BSA and Azide free (ab247436) at 1/1000 dilution

Secondary

All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/5000 dilution

Predicted band size: 84 kDa

Observed band size: 100 kDa



Western blot - Anti-PSMA antibody [EP3253] - BSA and Azide free (ab247436)

PSMA Western blot staining using rabbit Anti-PSMA antibody

Blocking buffer and concentration : 5% NFDM/TBST Diluting buffer and concentration : 5% NFDM/TBST
All lanes:
Western blot - Anti-PSMA antibody [EP3253] - BSA and Azide free (ab247436) at 1/5000 dilution

Lane 1:
LNCaP (Human prostate carcinoma epithelial cell) whole cell lysate prepared in 1% SDS Hot lysis method at 20 µg

Lane 2:
LNCaP (Human prostate carcinoma epithelial cell) whole cell lysate prepared in RIPA lysis method at 20 µg

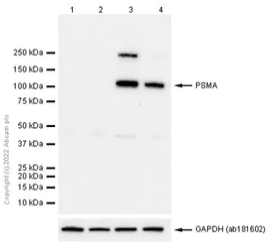
Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Predicted band size: 84 kDa

Observed band size: 100 kDa

Exposure time: 40s



Western blot - Anti-PSMA antibody [EP3253] - BSA and Azide free (ab247436)

PSMA Western blot staining using rabbit Anti-PSMA antibody

Blocking buffer and concentration : 5% NFDM/TBST Diluting buffer and concentration : 5% NFDM/TBST Negative control : PC-3 (PMID: 19830782).
All lanes:
Western blot - Anti-PSMA antibody [EP3253] - BSA and Azide free (ab247436) at 1/2000 dilution

Lane 1:
PC-3 (Human prostate adenocarcinoma epithelial cell) whole cell lysate prepared in RIPA lysis method at 20 µg

Lane 2:
PC-3 (Human prostate adenocarcinoma epithelial cell) whole cell lysate prepared in 1% SDS Hot lysis method at 20 µg

Lane 3:
LNCaP (Human prostate carcinoma epithelial cell) whole cell lysate prepared in RIPA lysis method at 20 µg

Lane 4:
LNCaP (Human prostate carcinoma epithelial cell) whole cell lysate prepared in 1% SDS Hot lysis method at 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/200000 dilution

Predicted band size: 84 kDa

Observed band size: 100 kDa

Exposure time: 40s

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.