

Product datasheet

Anti-PSMA antibody [EP3254] ab79542

Recombinant RabMAb

[3 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | Anti-PSMA antibody [EP3254] |
| Description | Rabbit monoclonal [EP3254] to PSMA |
| Host species | Rabbit |
| Tested applications | Suitable for: WB Unsuitable for: Flow Cyt, IHC-P or IP |
| Species reactivity | Reacts with: Human |
| Immunogen | Synthetic peptide within Human PSMA aa 350-450 (C terminal). The exact sequence is proprietary. |
| Positive control | LnCap lysate. LnCap cells. |
| General notes | <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p> |

Properties

| | |
|-----------------------------|--|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C. |
| Storage buffer | pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |
| Purity | Protein A purified |
| Clonality | Monoclonal |

Clone number EP3254

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab79542 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|---|
| WB | | 1/1000 - 1/10000. Detects a band of approximately 100-120 kDa (predicted molecular weight: 84 kDa). For unpurified, use 1/1000. |

Application notes Is unsuitable for Flow Cyt, IHC-P or IP.

Target

Function Has both folate hydrolase and N-acetylated- α -linked-acidic dipeptidase (NAALADase) activity. Has a preference for tri- α -glutamate peptides. In the intestine, required for the uptake of folate. In the brain, modulates excitatory neurotransmission through the hydrolysis of the neuropeptide, N-acetylaspartylglutamate (NAAG), thereby releasing glutamate. Isoform PSM-4 and isoform PSM-5 would appear to be physiologically irrelevant. Involved in prostate tumor progression.

Also exhibits a dipeptidyl-peptidase IV type activity. In vitro, cleaves Gly-Pro-AMC.

Tissue specificity Highly expressed in prostate epithelium. Detected in urinary bladder, kidney, testis, ovary, fallopian tube, breast, adrenal gland, liver, esophagus, stomach, small intestine, colon and brain (at protein level). Detected in the small intestine, brain, kidney, liver, spleen, colon, trachea, spinal cord and the capillary endothelium of a variety of tumors. Expressed specifically in jejunum brush border membranes. In the brain, highly expressed in the ventral striatum and brain stem. Also expressed in fetal liver and kidney. Isoform PSMA' is the most abundant form in normal prostate. Isoform PSMA-1 is the most abundant form in primary prostate tumors. Isoform PSMA-2 is also found in normal prostate as well as in brain and liver. Isoform PSMA-9 is specifically expressed in prostate cancer.

Sequence similarities Belongs to the peptidase M28 family. M28B subfamily.

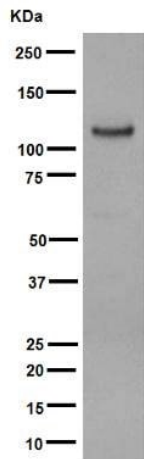
Domain The NAALADase activity is found in the central region, the dipeptidyl peptidase IV type activity in the C-terminal.

Post-translational modifications The first two amino acids at the N-terminus of isoform PSMA' appear to be cleaved by limited proteolysis.

The N-terminus is blocked.

Cellular localization Cytoplasm and Cell membrane.

Images



Western blot - Anti-PSMA antibody [EP3254]
(ab79542)

Anti-PSMA antibody [EP3254] (ab79542) at 1/3000 dilution
(purified) + LnCaP cell lysate at 10 μ g

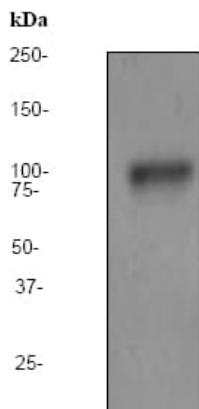
Secondary

HRP goat anti-rabbit (H+L) at 1/1000 dilution

Predicted band size: 84 kDa

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



Western blot - Anti-PSMA antibody [EP3254]
(ab79542)

Anti-PSMA antibody [EP3254] (ab79542) at 1/5000 dilution
(unpurified) + LnCap lysate at 10 μ g

Secondary

HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 84 kDa

Observed band size: 100 kDa

Why choose a recombinant antibody?

Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-PSMA antibody [EP3254] (ab79542)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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