abcam

ab249112

Anti-Aspartyl Aminopeptidase antibody [EPR10301] - 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	EPR10301
Purification technique	Affinity purification
Concentration	1.04 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Tested

Species	Human
Dilution info	-

Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt (Intra)

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Predicted

Species	Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information DNPEP

Function	Aminopeptidase with specificity towards an acidic amino acid at the N-terminus. Likely to play an important role in intracellular protein and peptide metabolism.

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

ab249112 is the carrier-free version of ab154805.

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.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	Aspartyl Aminopeptidase also known as DNPEP is a metallopeptidase enzyme that mechanically cleaves N-terminal aspartic acid residues from peptides. This enzyme has a molecular mass of about 52 kDa. Aspartyl Aminopeptidase is expressed in various tissues with high abundance in liver and kidney. Its subcellular location is mainly the cytosol where it is involved in protein processing and turnover.
Biological function summary	Aspastyl aminopeptidase plays a role in peptide metabolism by trimming aspartic acid residues aiding in protein degradation and maturation. It functions independently and is not known to be part of a larger protein complex. Its activity facilitates the maintenance of normal peptide levels which is essential for various cellular processes.
Pathways	Aspartyl aminopeptidase is involved in the renin-angiotensin system an important regulator of blood pressure and fluid balance. Within this pathway it modulates levels of angiotensin peptides. It also interacts with other proteins such as angiotensin-converting enzyme (ACE) and neprilysin highlighting its importance in cardiovascular homeostasis.
Associated diseases and disorders	Research links aspartyl aminopeptidase to essential hypertension due to its role in the renin-angiotensin system. Abnormal activity of this enzyme might contribute to alterations in angiotensin metabolism therefore impacting blood pressure regulation. Additionally dysregulation may have implications in kidney diseases where interaction with ACE affects renal function and blood pressure control.

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

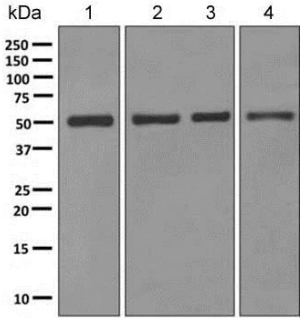
We do not recommend this combination. It is not covered by our product promise.

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.

1 product image



Western blot - Anti-Aspartyl Aminopeptidase antibody [EPR10301] - BSA and Azide free (ab249112)

This data was developed using ab154805, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-Aspartyl Aminopeptidase antibody [EPR10301] (ab154805) at 1/1000 dilution

Lane 1:
MCF7 lysate at 10 µg

Lane 2:
293T lysate at 10 µg

Lane 3:
K562 lysate at 10 µg

Lane 4:
A549 lysate at 10 µg

Predicted band size: 52 kDa

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