abcam

ab248969

Anti-PI-9 antibody [EPR8186(2)] - 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	EPR8186(2)
Purification technique	Affinity purification
Concentration	0.986 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Not recommended

Species	Human
Dilution info	-

Notes	-

IP

Not recommended

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Expected

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

Target data

See full target information SERPINB9

Function	Granzyme B inhibitor.

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

ab248969 is the carrier-free version of ab150400.

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	The PI-9 protein also known as serpinB9 is a serine protease inhibitor with a molecular mass of approximately 42 kDa. It is expressed primarily in immune cells such as cytotoxic T lymphocytes and natural killer cells as well as in some neurons and hepatocytes. The protein inhibits proteolytic enzymes to prevent unwanted cell death mainly controlling granzyme B activity.
Biological function summary	PI-9 helps regulate immune cell activity and prevent autoimmunity by inhibiting granule-mediated apoptosis. It functions as part of a complex that manages cell death pathways acting as a guardian against excessive cytotoxic actions by the immune system. Its regulatory role ensures the balance between attacking pathogens and protecting host cells from unnecessary destruction.
Pathways	PI-9 plays an integral role in the apoptotic pathway interacting with proteins like granzyme B to protect host cells from immune-mediated killing. It is also involved in the cellular response to stress especially within the immune system's cytotoxic responses. The protein's interaction with granzyme B highlights its role in maintaining the balance between immune defense and cellular protection.
Associated diseases and disorders	PI-9 has been linked to autoimmune conditions and cancer. It helps regulate autoimmune responses by preventing excessive apoptosis which could otherwise lead to tissue damage. In cancer PI-9 overexpression is sometimes observed potentially allowing tumor cells to evade immune surveillance. The relationship between PI-9 and granzyme B is important in understanding its dual role in disease contexts.

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

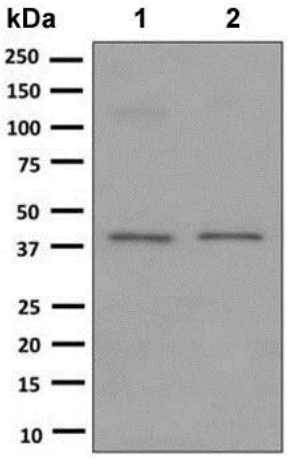
We do not recommend this combination. It is not covered by our product promise.

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:

1 product image



Western blot - Anti-PI-9 antibody [EPR8186(2)] - BSA and Azide free (ab248969)

PI-9 Western blot staining using rabbit Anti-PI-9 antibody

This data was developed using ab150400, the same antibody clone in a different buffer formulation.
Note: Dilute primary antibody in 1% BSA.

All lanes:
Western blot - Anti-PI-9 antibody [EPR8186(2)] (ab150400) at 1/1000 dilution

Lane 1:
Ramos lysate at 10 µg

Lane 2:
Human placenta lysate at 10 µg

Predicted band size: 42 kDa

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