abcam

ab251089

Anti-MAGEA9 antibody [EPR16258] - 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	EPR16258

Reactivity data

IP

Tested

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information MAGEA9

Function	Not known, though may play a role in embryonal development and tumor transformation or aspects of tumor progression.

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

ab251089 is the carrier-free version of ab191568.
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	MAGEA9 also known as Melanoma-associated antigen family A 9 is a protein encoded by the MAGEA9 gene. This protein has a molecular mass of approximately 36 kDa. MAGEA9 is mainly expressed in testis and certain tumors making it a cancer/testis (CT) antigen. The specificity of this expression pattern makes MAGEA9 a valuable target in cancer research especially for immunotherapy approaches.
Biological function summary	MAGEA9 functions as an element facilitating cellular processes like proliferation and apoptosis. Although MAGEA9 itself is not part of any known complex its expression can influence the regulatory mechanisms within cells supporting cellular survival and growth under oncogenic stress. It has roles in modifying the transcriptional activity affecting genes involved in cell cycle regulation.
Pathways	The involvement of MAGEA9 extends to the p53 pathway and the MAPK signaling pathway both critical for cell cycle and survival regulation. In the p53 pathway MAGEA9 can interfere with normal p53 function which is vital for DNA damage response and apoptosis. MAGEA9 may interact indirectly with proteins such as p21 a well-known downstream effector of p53 impacting the pathway's ability to manage cell cycle arrest and maintain genomic stability.
Associated diseases and disorders	MAGEA9 holds significant relevance in cancers particularly melanoma and lung cancer. The aberrant expression of MAGEA9 in these diseases highlights its potential utility in diagnostic and therapeutic applications. MAGEA9 expression has been linked with poor prognosis due to its potential to alter pathways related to cell death and proliferation. In some contexts MAGEA9 possibly interacts with other proteins like MAGEA4 which may collectively contribute to oncogenesis and tumor progression.

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.

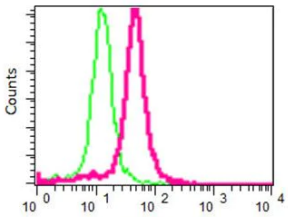
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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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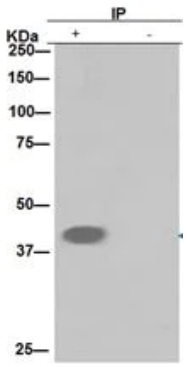
4 product images



Flow Cytometry (Intracellular) - Anti-MAGEA9 antibody [EPR16258] - BSA and Azide free (ab251089)

MAGEA9 Flow Cytometry (Intracellular) staining using rabbit Anti-MAGEA9 antibody

This data was developed using ab191568, the same antibody clone in a different buffer formulation.
Intracellular flow cytometric analysis of 562 cells labeling MAGEA9 using ab191568 at 1/350 dilution (red) or rabbit monoclonal IgG as isotype control (green). Secondary antibody Goat anti rabbit IgG (FITC). Cells were fixed in 2% paraformaldehyde.

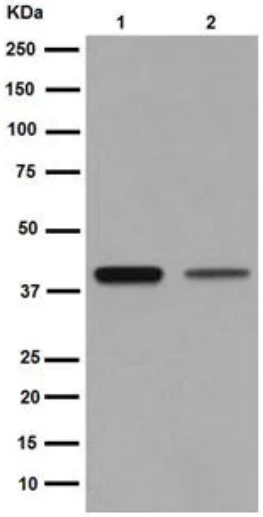


Immunoprecipitation - Anti-MAGEA9 antibody [EPR16258] - BSA and Azide free (ab251089)

This data was developed using ab191568, the same antibody clone in a different buffer formulation.
Immunoprecipitation analysis of human testis tissue lysate labeling MAGEA9 using ab191568 at 1/100 dilution (Left Lane). A Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1500 was used as secondary antibody. Right Lane: PBS instead of human testis tissue lysate.

All lanes:
Immunoprecipitation - Anti-MAGEA9 antibody [EPR16258] (ab191568)

Predicted band size: 35 kDa



Western blot - Anti-MAGEA9 antibody [EPR16258] - BSA and Azide free (ab251089)

MAGEA9 Western blot staining using rabbit Anti-MAGEA9 antibody

This data was developed using ab191568, the same antibody clone in a different buffer formulation.
Blocking and dilution buffer: 5% NFDM/TBST.

All lanes:
Western blot - Anti-MAGEA9 antibody [EPR16258] (ab191568) at 1/1000 dilution

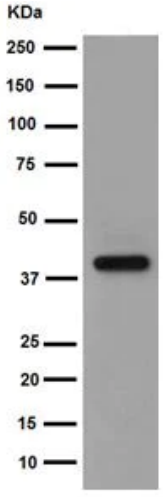
Lane 1:
Human testis lysate at 10 µg

Lane 2:
Human melanoma lysate at 10 µg

Secondary

All lanes:
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 35 kDa



Western blot - Anti-MAGEA9 antibody [EPR16258] - BSA and Azide free (ab251089)

MAGEA9 Western blot staining of K562 cell lysate using rabbit Anti-MAGEA9 antibody

This data was developed using ab191568, the same antibody clone in a different buffer formulation.
All lanes:
Western blot - Anti-MAGEA9 antibody [EPR16258] (ab191568) at 1/1000 dilution

All lanes:
K562 cell lysate at 10 µg

Secondary

All lanes:
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 35 kDa

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