abcam

ab282734

Anti-MS4A4A antibody [EPR24399-27] - 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	EPR24399-27
Purification technique	Affinity purification Protein A

Reactivity data

ICC/IF

Not recommended

Species	Mouse, Human, Rat
Dilution info	-
Notes	-

IP

Not recommended

Species	Mouse, Human, Rat
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

WB

Not recommended

Species	Mouse, Rat, Human
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

Target data

See full target information MS4A4A

Function	May be involved in signal transduction as a component of a multimeric receptor complex.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

ab282734 is the carrier-free version of ab282732.

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	MS4A4A also known as Membrane-spanning 4-domains subfamily A member 4A is a protein with a mass of approximately 25 kilodaltons. It is a member of the MS4A family which includes several proteins sharing similar structural features such as four transmembrane domains. MS4A4A is mainly expressed on the cell surface of immune cells including monocytes and macrophages. Its expression is notably observed in spleen and peripheral blood leukocytes suggesting an important role in the immune system.
Biological function summary	MS4A4A influences cellular communication and immune response. It is part of larger multiprotein complexes on the cell membrane helping mediate interactions between cells and extracellular signaling molecules. These interactions are important for triggering immune responses and maintaining tissue homeostasis. MS4A4A interacts with a range of cytokines which makes it important for modulating immune cell activities and facilitating immune surveillance.
Pathways	MS4A4A influences immune signaling pathways and impacts inflammation processes. It is involved in the NF-κB signaling pathway which is an important mediator of immune response inflammation and cell survival. MS4A4A also interacts with proteins like CD20 and other MS4A family members which play roles in cell cycle and apoptosis regulation. These interactions ensure effective signal transduction and immune regulation making it a significant participant in maintaining cellular homeostasis.
Associated diseases and disorders	MS4A4A has associations with inflammatory diseases and certain types of cancer. It is connected to the pathology of chronic inflammatory conditions where its overexpression may lead to excessive immune responses. MS4A4A is also implicated in hematologic malignancies where it might influence tumor growth and immune evasion. In such contexts it often interacts with proteins like CD20 which are essential for B-cell development and differentiation. Understanding MS4A4A's involvement in these disorders provides insights into potential therapeutic strategies targeting immune-related pathways.

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

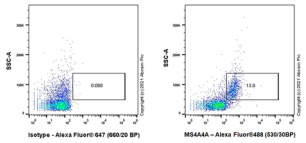
We do not recommend this combination. It is not covered by our product promise.

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



Flow Cytometry - Anti-MS4A4A antibody [EPR24399-27] - BSA and Azide free (ab282734)

MS4A4A Flow Cytometry staining using rabbit Anti-MS4A4A antibody

This data was developed using ab282732, the same antibody clone in a different buffer formulation.
Flow cytometric analysis of Human peripheral blood mononuclear cell (PBMC) cells labelling MS4A4A with ab282732 at 1/50 dilution (1ug)/ Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control. Goat anti rabbit IgG (Alexa Fluor® 647, ab150079) at 1/2000 dilution was used as the secondary antibody. Gated on viable cells. MS4A4A is expressed in monocytes (PMID: 28303902).

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