abcam

ab274325

Anti-PVRIG/CD112R antibody [EPR23797-104] - 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	EPR23797-104
Purification technique	Affinity purification Protein A
Concentration	1.026 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Not recommended

Species	Human, Mouse, Rat
Dilution info	-

Notes	-

IP

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Mouse, Rat
Dilution info	-
Notes	-

WB

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

IHC-P

Not recommended

Species	Human, Mouse, Rat
Dilution info	-

Notes	-

Target data

See full target information PVRIG

Function	Cell surface receptor for NECTIN2. May act as a coinhibitory receptor that suppresses T-cell receptor-mediated signals. Following interaction with NECTIN2, inhibits T-cell proliferation. Competes with CD226 for NECTIN2-binding.

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

ab274325 is the carrier-free version of ab256808.

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 PVRIG also known as CD112R is a cell surface receptor involved in immune responses. It has a molecular mass of approximately 38 kDa. Expressed mainly in immune cells including T cells and natural killer (NK) cells PVRIG binds with high affinity to its ligand CD112. This interaction modulates immune cell function by transmitting inhibitory signals that downregulate immune activation serving as a potential immune checkpoint.
Biological function summary	PVRIG impacts immune cell behavior and is part of the inhibitory receptor family. Its primary role is to fine-tune the immune response by decreasing overactivation helping to maintain immune homeostasis. PVRIG interacts with other immune inhibitory receptors like TIGIT and PD-1 forming a complex network that suppresses overactive T cell responses. This process is important for preventing autoimmune reactions while allowing normal immune surveillance.
Pathways	PVRIG participates in immune checkpoint pathways that influence T cell regulation. It plays a role in the immune checkpoint receptor pathway which is pivotal for controlling immune tolerance and immune-mediated inflammation. Within these pathways PVRIG works closely with other receptors like PD-1 forming a blockade that maintains the balance of immune activation and inhibition and participates in the immune synapse during antigen presentation.
Associated diseases and disorders	PVRIG is relevant to cancer and autoimmune diseases. Its expression on T cells can be upregulated in tumor environments contributing to immune escape in cancers like melanoma. The PVRIG-CD112 interaction competes with other pathways such as TIGIT and CD112 further impacting tumor immune evasion. In autoimmune diseases PVRIG may prevent excessive immune responses linking it to conditions like rheumatoid arthritis where altered immune regulation occurs.

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.

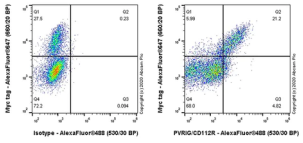
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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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2 product images

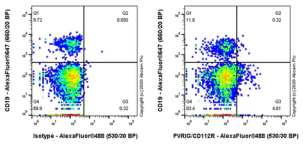


Flow Cytometry - Anti-PVRIG/CD112R antibody [EPR23797-104] - BSA and Azide free (ab274325)

PVRIG/CD112R Flow Cytometry staining using rabbit Anti-PVRIG/CD112R antibody

Flow cytometric analysis of 2% paraformaldehyde fixed, 0.1% Tween-20 permeabilized HEK-293T (Human embryonic kidney epithelial cell) transfected with myc-tagged PVRIG/CD112R construct cells labelling PVRIG/CD112R with ab256808 at 1/500 dilution (0.1ug) (Right) compared with a Rabbit monoclonal IgG (ab172730) isotype control (Left). A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.
Cells were surface stained with rabbit IgG and ab256808, then fixed with 2% PFA followed by intracellularly staining with anti-myc tag conjugated to AlexaFluor®647.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab256808).



Flow Cytometry - Anti-PVRIG/CD112R antibody [EPR23797-104] - BSA and Azide free (ab274325)

PVRIG/CD112R Flow Cytometry staining using rabbit Anti-PVRIG/CD112R antibody

Flow cytometric analysis of Human peripheral blood mononuclear cell (PBMC) cells labelling PVRIG/CD112R with ab256808 at 1/500 dilution (0.1ug)(Right) compared with a Rabbit monoclonal IgG (ab172730) isotype control (Left). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.
Cells were stained with rabbit IgG or ab256808. Then stained with anti-CD19 conjugated to Alexa Fluor® 647.

Gated on viable cells.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab256808).

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