abcam

ab255851

Anti-Poliovirus Receptor/PVR antibody [3F1] - BSA and Azide free

Recombinant

Key facts

Isotype	IgG2a
Host species	Rat
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	3F1
Purification technique	Ion exchange chromatography
Concentration	1.051 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Mouse
Dilution info	-

Notes	-

Not recommended

Species	Human
Dilution info	-
Notes	-

Target data

See full target information Poliovirus receptor

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

ab255851 is the carrier-free version of ab252857.
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.

Want a custom formulation?
This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com

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 Poliovirus Receptor (PVR) also known as CD155 is a cell surface glycoprotein with a molecular mass of approximately 70 kDa. This receptor is expressed on a variety of cell types including epithelial and endothelial cells immune cells and fibroblasts. Another name for PVR is Necl-5 which falls under the nectin-like molecule family. It acts as an adhesion molecule and contributes to cellular signaling and junctional complexes. The expression of PVR is widespread across multiple tissues but it exhibits stronger expression in areas such as the skin and the gastrointestinal tract.
Biological function summary	The Poliovirus Receptor plays meaningful roles in immune response modulation and cell-cell adhesion. PVR interacts with components of the immune system and forms complexes with other proteins like CD226 and TIGIT. These interactions help regulate immune cell activities especially in the context of natural killer (NK) cells and T-cells. The CD155 protein also links to migration and proliferation processes which are essential for tissue formation and repair.
Pathways	PVR is involved in the regulation of immune and signaling pathways. It fits into pathways like NK cell activation and T-cell inhibitory signaling which are important for maintaining immune tolerance and preventing autoimmunity. In these pathways PVR interacts closely with other immunoregulatory proteins including CD226 and TIGIT. The partnership of PVR with these proteins shapes the delicate balance between immune activation and suppression demonstrating a clear role in immune homeostasis.
Associated diseases and disorders	PVR relates to conditions such as cancer and viral infection. Its overexpression or altered signaling has been observed in several cancers where it may contribute to tumor growth and immune evasion. The interaction between PVR and its related protein TIGIT can affect antitumor immune responses complicating cancer progression. Additionally as its name suggests PVR binds to the poliovirus facilitating viral entry and spread during infection. This highlights the importance of PVR not only in pathogenic interactions but also in broader immune response 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

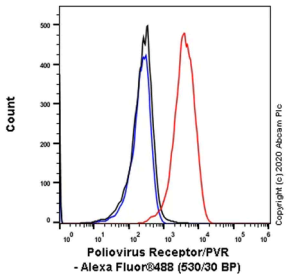
We do not recommend this combination. It is not covered by our product promise.

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:
Terms & Conditions.

1 product image



Flow Cytometry - Anti-Poliovirus Receptor/PVR antibody [3F1] - BSA and Azide free (ab255851)

Poliovirus Receptor/PVR Flow Cytometry staining using rat Anti-Poliovirus Receptor/PVR antibody

Flow cytometric analysis of Mouse thymocytes labeling Poliovirus Receptor/PVR (Red) using ab252857 at 1.002 µg/mL followed by Goat anti rat IgG (Alexa Fluor® 488, ab150157) at 1/2000 dilution. A Rat monoclonal IgG (Black) was used as an isotype control, Cells without incubation with primary antibody and secondary antibody (Blue). 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 (ab252857).

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