Leinco Technologies, Inc.
excellence in early discovery research™

Mouse CD155 (PVR) Antibody

Purified *in vivo* GOLD™ Functional Grade

Monoclonal Antibody

Product Information

Product No.:	C2833
Clone:	4.24.1
RRID:	AB_2737472
Isotype:	Rat IgG2a κ
Storage:	Sterile 2-8°C

Product Description

Specificity:
Clone 4.24.1 recognizes an epitope on mouse CD155.

Antigen Distribution:
CD155 is expressed at cell junctions on the primary vascular endothelial cells and is highly expressed on DP thymocytes.

Background:
CD155 is a transmembrane glycoprotein member of a subfamily of immunoglobulin-like adhesion receptors (nectins). CD155 is commonly known as Poliovirus Receptor (PVR) because of its involvement as a cellular receptor for poliovirus. The normal function of CD155 is to establish intercellular adherens junctions between epithelial cells. Of its 3 extracellular immunoglobulin-like domains (D1, D2, and D3), the virus only recognizes D1. CD155 interacts with both CD226 and CD96 to induce cytotoxicity of NK cells and CTL. The precise role of CD155 in the immune system remains to be elucidated, though it is suspected to be involved in intestinal humoral immune responses. Furthermore, it is thought that CD155 may be used to positively select MHC-independent T cells in the thymus.

Known Reactivity Species:
Mouse

Format:
Purified *in vivo* GOLD™ Functional Grade

Immunogen:
EL4 transfected with mouse CD155

Formulation

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

Purity

≥95% monomer by analytical SEC, >95% by SDS Page

Endotoxin

< 1.0 EU/mg as determined by the LAL method

Storage and Stability

Functional grade preclinical antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at ≤ -70°C.
Avoid Repeated Freeze Thaw Cycles.

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Product Preparation
Functional grade preclinical antibodies are manufactured in an animal free facility using *in vitro* cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

Applications
Applications and Recommended Usage (Quality Tested By Leinco):
FC The suggested concentration for this 4.24.1 antibody for staining cells in flow cytometry is ≤ 0.25 µg per 10^6 cells in a volume of 100 µl. Titration of the reagent is recommended for optimal performance for each application.

Other Applications Reported in Literature:

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Country of Origin
USA

References
1. Kourepini, E. et al. (2016) J. Immunol. 196(9):3570-3580.