ARG23175
anti-CD8b antibody [PPT23] (FITC)

Package: 50 µg
Store at: 4°C

Summary

Product Description	FITC-conjugated Mouse Monoclonal antibody [PPT23] recognizes CD8b Mouse anti Pig CD8 beta chain, clone PPT23, recognizes the porcine homologue of the human CD8 beta chain cell surface antigen.Characterization of clone PPT23, also known under the clone designation FYP1C5, has demonstrated that on peripheral blood lymphocytes and spleen, this antibody binds to cells that are CD3+, CD4-, CD8hi and as such defines this antibody as a specific marker of porcine α/β T cells. Characterization of clone PPT23 has shown that in thymic tissue both CD8lo and CD8hi cells are recognized (Yang H & Parkhouse R.M. 1997). Inhibition studies have demonstrated that clone PPT23 recognizes a different epitope of on the CD8 beta chain to clone PPT22.
Tested Reactivity	Pig
Tested Application	FACS
Host	Mouse
Clonality	Monoclonal
Clone	PPT23
Isotype	IgG1
Target Name	CD8b
Species	Pig
Immunogen	Porcine thymus membrane lysate.
Conjugation	FITC
Alternate Names	LY3; CD8B1; CD antigen CD8b; LEU2; T-cell surface glycoprotein CD8 beta chain; P37; LYT3

Application Instructions

Application table

Application	Dilution
FACS	Neat

Application Note: FACS: Use 10 µl of the suggested working dilution to label 10^6 cells in 100 µl.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

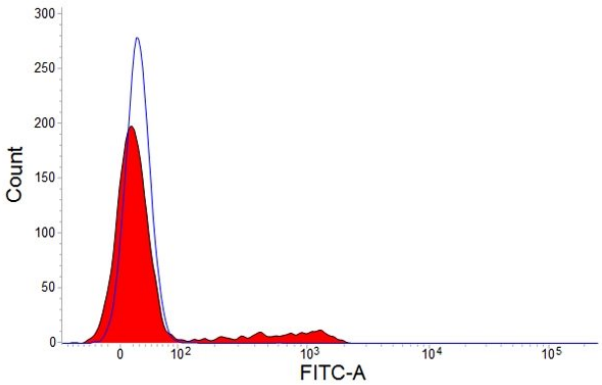
Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.09% Sodium azide and 1% BSA.
Preservative	0.09% Sodium azide
Stabilizer	1% BSA
Concentration	0.1 mg/ml

Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	CD8B
Gene Full Name	CD8b molecule
Background	The CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell-cell interactions within the immune system. The CD8 antigen, acting as a coreceptor, and the T-cell receptor on the T lymphocyte recognize antigens displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. The functional coreceptor is either a homodimer composed of two alpha chains, or a heterodimer composed of one alpha and one beta chain. Both alpha and beta chains share significant homology to immunoglobulin variable light chains. This gene encodes the CD8 beta chain isoforms. Multiple alternatively spliced transcript variants encoding distinct membrane associated or secreted isoforms have been described. A pseudogene, also located on chromosome 2, has been identified. [provided by RefSeq, May 2010]
Function	Identifies cytotoxic/suppressor T-cells that interact with MHC class I bearing targets. CD8 is thought to play a role in the process of T-cell mediated killing. [UniProt]
Highlight	Related products: CD8 antibodies; CD8 ELISA Kits; CD8 Duos / Panels; Anti-Mouse IgG secondary antibodies; Related news: New antibody panels and duos for Tumor immune microenvironment Tumor-Infiltrating Lymphocytes (TILs)
Calculated Mw	24 kDa
PTM	Phosphorylated as a consequence of T-cell activation. [UniProt]

Images



ARG23175 anti-CD8b antibody [PPT23] (FITC) FACS image

Flow Cytometry: Porcine peripheral blood lymphocytes stained with ARG23175 anti-CD8b antibody [PPT23] (FITC).