ARG22641
anti-CD6 antibody [MIL8]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [MIL8] recognizes CD6 This antibody recognizes Pig wCD6, the Porcine homolog of Human CD6. Clone MIL8 was clustered as wCD6 at the Second International Swine CD Antigen Workshop based on its staining pattern of various cell types which was in complete concordance with those exhibited by the reference antibody for the wCD6 cluster at the second workshop, ab36b2. Clone MIL8 and clone ab36b2 immunoprecipitated a monomeric protein of ~150 kDa from an activated T-cell lysate. Further, it was established that clones MIL8 and ab36b2 bind to different epitopes on Porcine wCD6 due to their total lack of reciprocal binding to wCD6 expressing cells (Pescovitz et al. 1998).
Tested Reactivity	Pig
Tested Application	FACS, IHC-Fr
Host	Mouse
Clonality	Monoclonal
Clone	MIL8
Isotype	IgG2a
Target Name	CD6
Species	Pig
Immunogen	Porcine Lamina propria leucocytes
Conjugation	Un-conjugated
Alternate Names	CD antigen CD6; TP120; T-cell differentiation antigen CD6; T12

Application Instructions

Application table

Application	Dilution
FACS	1:25 - 1:200
IHC-Fr	Assay-dependent

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

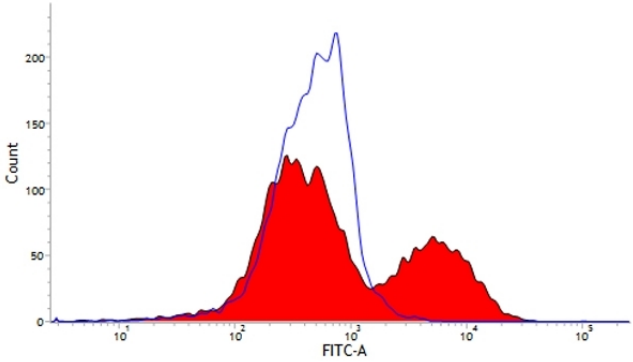
Form	Liquid
Purification	Purification with Protein A.
Buffer	Tissue Culture Supernatant and 0.09% Sodium azide.
Preservative	0.09% Sodium azide
Concentration	1 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. 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

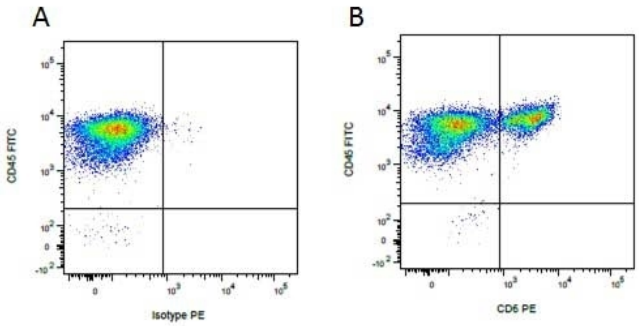
Gene Symbol	CD6
Gene Full Name	CD6 molecule
Background	This gene encodes a protein found on the outer membrane of T-lymphocytes as well as some other immune cells. The encoded protein contains three scavenger receptor cysteine-rich (SRCR) domains and a binding site for an activated leukocyte cell adhesion molecule. The gene product is important for continuation of T cell activation. This gene may be associated with susceptibility to multiple sclerosis (PMID: 19525953, 21849685). Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]
Function	Involved in cell adhesion. Binds to CD166. [UniProt]
Calculated Mw	72 kDa
PTM	After T-cell activation, becomes hyperphosphorylated on Ser and Thr residues and phosphorylated on Tyr residues. Glycosylated.

Images



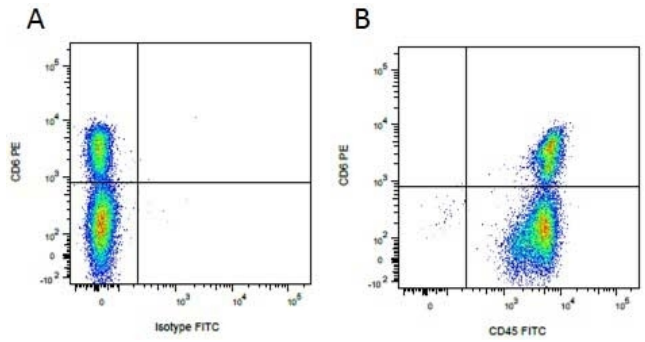
ARG22641 anti-CD6 antibody [MIL8] FACS image

Flow Cytometry: Pig peripheral blood lymphocytes stained with ARG22641 anti-CD6 antibody [MIL8] followed by Goat anti Mouse IgG (FITC).



ARG22641 anti-CD6 antibody [MIL8] FACS image

Flow Cytometry: Figure A. anti-Porcine CD45 antibody (FITC) and purified Mouse IgG2a isotype control detected with Goat anti Mouse IgG2a (RPE). Figure B. anti-Porcine antibody CD45 (FITC) and ARG22641 anti-CD6 antibody [MIL8] detected with Goat anti Mouse IgG2a. All experiments performed on red cell lysed Porcine blood gated on mononuclear cells.



ARG22641 anti-CD6 antibody [MIL8] FACS image

Flow Cytometry: Figure A. ARG22641 anti-CD6 antibody [MIL8] detected with Goat anti-mouse IgG2a (RPE) and Mouse IgG2b isotype control (FITC). Figure B. ARG22641 anti-CD6 antibody [MIL8] detected with Goat anti-mouse IgG2a (RPE) and Mouse anti-Porcine CD45 (FITC). All experiments performed on red cell lysed Porcine blood gated on mononuclear cells.