

ARG22832 anti-CD3 epsilon antibody [CA17.2A12] (FITC)

Package: 50 µg
Store at: 4°C

Summary

Product Description	FITC-conjugated Mouse Monoclonal antibody [CA17.2A12] recognizes CD3 epsilon CD3 antibody, clone CA17.2A12 recognizes the canine CD3 cell surface antigen expressed by thymocytes and mature T lymphocytes. Clone CA17.2A12 is a valuable flow cytometric and immunohistologic tool for canine lymphoma detection of T-cell origin.
Tested Reactivity	Dog
Tested Application	FACS
Host	Mouse
Clonality	Monoclonal
Clone	CA17.2A12
Isotype	IgG1
Target Name	CD3 epsilon
Species	Dog
Immunogen	Affinity enriched TCR/CD3 membrane proteins isolated from thymocytes and the T cell line CLGL-90
Conjugation	FITC
Alternate Names	CD3E; CD3 Epsilon Subunit Of T-Cell Receptor Complex; T-Cell Surface Glycoprotein CD3 Epsilon Chain; CD3e Antigen, Epsilon Polypeptide (TiT3 Complex); T-Cell Surface Antigen T3/Leu-4 Epsilon Chain; CD3e Molecule, Epsilon (CD3-TCR Complex); CD3-Epsilon; CD3epsilon; T3E; T-Cell Antigen Receptor Complex, Epsilon Subunit Of T3; CD3e Molecule; CD3e Antigen; CD3-EPSILON; CD3EPSILON

Application Instructions

Application table	<table> <tr> <th>Application</th><th>Dilution</th></tr> <tr> <td>FACS</td><td>Neat - 1:10</td></tr> </table>	Application	Dilution	FACS	Neat - 1:10
Application	Dilution				
FACS	Neat - 1:10				
Application Note	<p>FACS: Use 10 µl of the suggested working dilution to label 10⁶ cells or 100 µl whole blood.</p> <p>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.</p>				

Properties

Form	Liquid
Purification	Purification with Protein G.
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

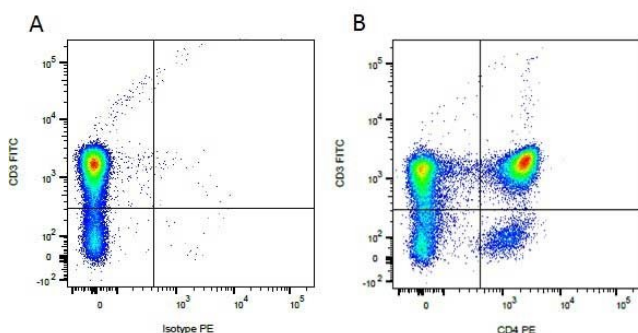
repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

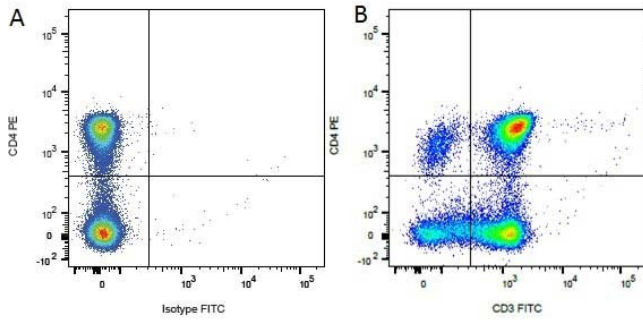
Gene Symbol	CD3E
Gene Full Name	CD3 Epsilon Subunit Of T-Cell Receptor Complex
Background	The protein encoded by this gene is the CD3-epsilon polypeptide, which together with CD3-gamma, -delta and -zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T-cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. The epsilon polypeptide plays an essential role in T-cell development. Defects in this gene cause immunodeficiency. This gene has also been linked to a susceptibility to type I diabetes in women.
Function	Part of the TCR-CD3 complex present on T-lymphocyte cell surface that plays an essential role in adaptive immune response. When antigen presenting cells (APCs) activate T-cell receptor (TCR), TCR-mediated signals are transmitted across the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD3Z. All CD3 chains contain immunoreceptor tyrosine-based activation motifs (ITAMs) in their cytoplasmic domain. Upon TCR engagement, these motifs become phosphorylated by Src family protein tyrosine kinases LCK and FYN, resulting in the activation of downstream signaling pathway.
Highlight	Related products: CD3 antibodies ; CD3 ELISA Kits ; CD3 Duos / Panels ; Related news: New antibody panels and duos for Tumor immune microenvironment Tumor-Infiltrating Lymphocytes (TILs)
Research Area	Cancer antibody; Developmental Biology antibody; Immune System antibody; Lymphocyte Marker antibody; Inflammatory Cell Marker antibody; T-cell Marker antibody; T-cell infiltration Study antibody; Tumor-infiltrating Lymphocyte Study antibody
Calculated Mw	23 kDa
PTM	Disulfide bond, Phosphoprotein
Cellular Localization	Cell membrane, Membrane

Images



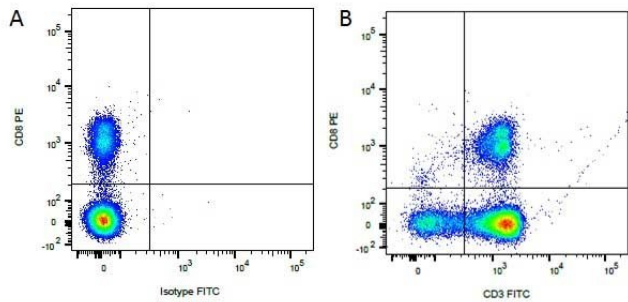
ARG22832 anti-CD3 epsilon antibody [CA17.2A12] (FITC) FACS image

Flow Cytometry: Figure A. ARG22832 anti-CD3 epsilon antibody [CA17.2A12] (FITC) and RPE conjugated Rat IgG2a isotype control. Figure B. ARG22832 anti-CD3 epsilon antibody [CA17.2A12] (FITC) and RPE conjugated Rat anti Canine CD4. All experiments performed on red cell lysed canine blood gated on mononuclear cells.



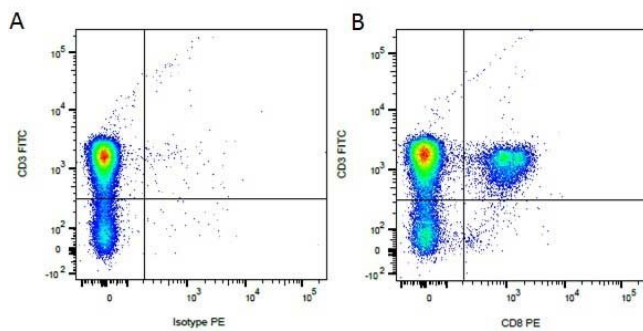
ARG22832 anti-CD3 epsilon antibody [CA17.2A12] (FITC) FACS image

Flow Cytometry: Figure A. RPE conjugated Rat anti Canine CD4 and FITC conjugated Mouse IgG1 isotype control. Figure B. RPE conjugated Rat anti Canine CD4 and ARG22832 anti-CD3 epsilon antibody [CA17.2A12] (FITC). All experiments performed on red cell lysed canine blood gated on mononuclear cells.



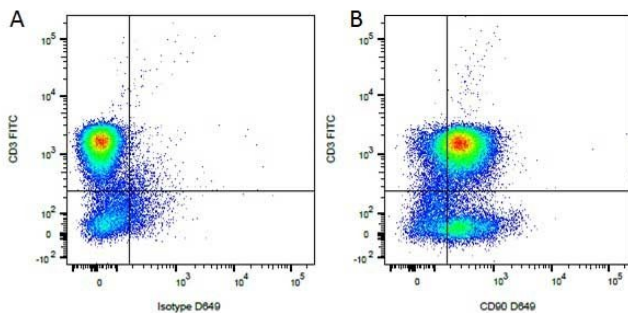
ARG22832 anti-CD3 epsilon antibody [CA17.2A12] (FITC) FACS image

Flow Cytometry: Figure A. RPE conjugated Rat anti Canine CD8 and FITC conjugated Mouse IgG1 isotype control. Figure B. RPE conjugated Rat anti Canine CD8 and ARG22832 anti-CD3 epsilon antibody [CA17.2A12] (FITC). All experiments performed on red cell lysed canine blood gated on mononuclear cells.



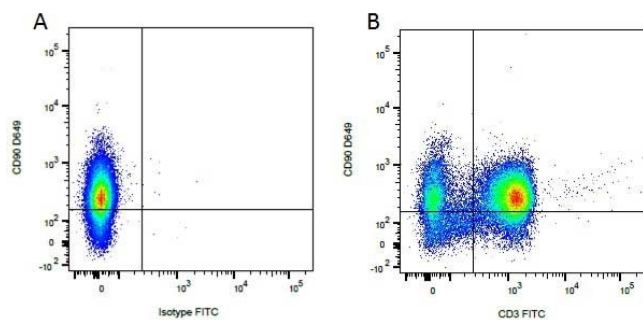
ARG22832 anti-CD3 epsilon antibody [CA17.2A12] (FITC) FACS image

Flow Cytometry: Figure A. ARG22832 anti-CD3 epsilon antibody [CA17.2A12] (FITC) and RPE conjugated Rat IgG1 isotype control. Figure B. ARG22832 anti-CD3 epsilon antibody [CA17.2A12] (FITC) and RPE conjugated Rat anti Canine CD8. All experiments performed on red cell lysed canine blood gated on mononuclear cells.



ARG22832 anti-CD3 epsilon antibody [CA17.2A12] (FITC) FACS image

Flow Cytometry: Figure A. ARG22832 anti-CD3 epsilon antibody [CA17.2A12] (FITC) and purified Rat IgG2a isotype control detected with Goat anti Rat IgG2a DyLight 649. Figure B. ARG22832 anti-CD3 epsilon antibody [CA17.2A12] (FITC) and purified Mouse anti Canine CD90 detected with Goat anti Rat IgG2a DyLight 649. All experiments performed on red cell lysed canine blood gated on mononuclear cells.



ARG22832 anti-CD3 epsilon antibody [CA17.2A12] (FITC) FACS image

Flow Cytometry: Figure A. Purified Rat anti Canine CD90 detected with Goat anti Rat IgG2a DyLight 649 and Mouse IgG1 FITC isotype control. Figure B. Purified Rat anti Canine CD90 detected with Goat anti Rat IgG2a (PE) and ARG22832 anti-CD3 epsilon antibody [CA17.2A12] (FITC). All experiments performed on red cell lysed canine blood gated on mononuclear cells.