

ARG21152 anti-CD3 epsilon antibody [CT-3] (Biotin)

Package: 100 µg
Store at: 4°C

Summary

Product Description	Biotin-conjugated Mouse Monoclonal antibody [CT-3] recognizes CD3 epsilon
Tested Reactivity	Chk
Tested Application	FACS, IHC-Fr, IHC-P
Specificity	Chicken CD3 epsilon. The clone CT-3 recognizes a complex of at least three polypeptides of Mr 20, 19, and 17 kDa (two of which are N-glycosylated) on chicken T cells. The antibody also coprecipitates a polypeptide of 90 kDa from digitonin solubilized T cell lysates, which can be reduced to two polypeptides of Mr 50 and 40 kDa.
Host	Mouse
Clonality	Monoclonal
Clone	CT-3
Isotype	IgG1, kappa
Target Name	CD3 epsilon
Species	Chicken
Immunogen	Chicken thymocytes and Ig- blood mononuclear cells
Conjugation	Biotin
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	Application	Dilution
	FACS	< 1 µg/10 ⁶ cells
	IHC-Fr	Assay-dependent
	IHC-P	Assay-dependent
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

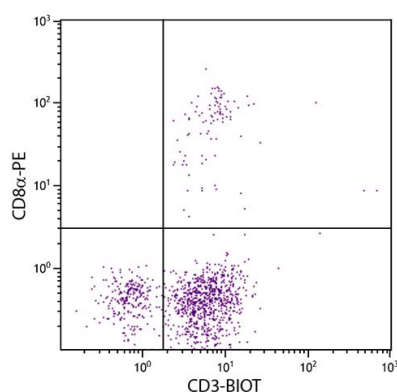
Form	Liquid
Buffer	PBS and 0.1% Sodium azide.
Preservative	0.1% Sodium azide
Concentration	0.5 mg/ml

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



ARG21152 anti-CD3 epsilon antibody [CT-3] (Biotin) FACS image

Flow Cytometry: Chicken peripheral blood lymphocytes stained with ARG21152 anti-CD3 epsilon antibody [CT-3] (Biotin) and [ARG21162](#) anti-CD8a antibody [CT-8] (PE) followed by Streptavidin (FITC).