

Datasheet for ABIN1981862
anti-CD3 antibody (PerCP)



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Overview

Quantity:	0.1 mg
Target:	CD3
Reactivity:	Mouse
Host:	Armenian Hamster
Clonality:	Monoclonal
Conjugate:	This CD3 antibody is conjugated to PerCP
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Mouse BM10-37 cytotoxic T lymphocytes
Clone:	145-2C11
Isotype:	IgG kappa
Specificity:	The Armenian hamster monoclonal antibody 145-2C11 reacts with an extracellular epitope of murine CD3 (epsilon subunit). This antibody is commonly used as a phenotypic marker for murine T cells.
Cross-Reactivity (Details):	Mouse
Purification:	Purified antibody is conjugated with activated Peridinin-Chlorophyll Protein (PerCP) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD3
Alternative Name:	CD3 (CD3 Products)
Background:	<p>CD3 antigen, epsilon polypeptide, CD3 complex is crucial in transducing antigen-recognition signals into the cytoplasm of T cells and in regulating the cell surface expression of the TCR complex. T cell activation through the antigen receptor (TCR) involves the cytoplasmic tails of the CD3 subunits CD3 gamma, CD3 delta, CD3 epsilon and CD3 zeta. These CD3 subunits are structurally related members of the immunoglobulins super family encoded by closely linked genes on human chromosome 11. The CD3 components have long cytoplasmic tails that associate with cytoplasmic signal transduction molecules. This association is mediated at least in part by a double tyrosine-based motif present in a single copy in the CD3 subunits. CD3 may play a role in TCR-induced growth arrest, cell survival and proliferation. The CD3 antigen is present on 68-82 % of normal peripheral blood lymphocytes, 65-85 % of thymocytes and Purkinje cells in the cerebellum. It is never expressed on B or NK cells. Decreased percentages of T lymphocytes may be observed in some autoimmune diseases., CD3E, T3E, TCRE</p>
Gene ID:	12501
UniProt:	P22646
Pathways:	TCR Signaling , Ubiquitin Proteasome Pathway

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 2-5 µg/mL.
Comment:	The purified antibody is conjugated with Peridinin-chlorophyll-protein complex (PerCP) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Restrictions:	For Research Use only

Handling

Concentration:	0.5 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light.

Handling

Do not use after expiration date stamped on vial label.

Short-term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.

Storage: 4 °C

Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in: Han, Murray-Segal, Gershenson, Zhang, Hodder, Pietersz, Mottram: "Idarubicin-145-2C11-F(ab')₂ promotes peripheral tolerance and reduces chronic vascular disease in mouse cardiac allografts." in: **Transplant immunology**, Vol. 7, Issue 4, pp. 207-13, (2000) ([PubMed](#)).

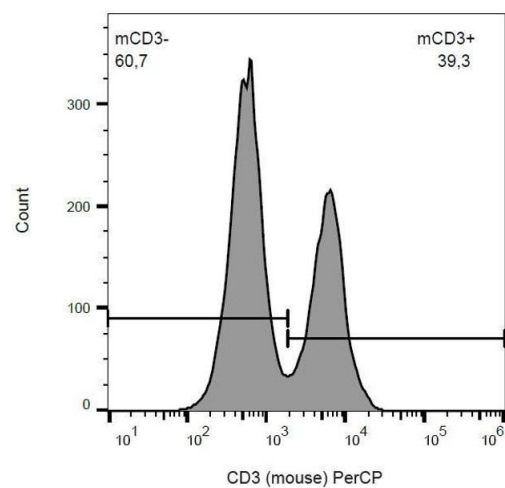
Kearse: "Calnexin associates with monomeric and oligomeric (disulfide-linked) CD3delta proteins in murine T lymphocytes." in: **The Journal of biological chemistry**, Vol. 273, Issue 23, pp. 14152-7, (1998) ([PubMed](#)).

Kinnaert, Pradier, Bournonville, Habrant, Goldman, Van Geertruyden et al.: "Role of CD18-dependent and CD18-independent mechanisms in the increased leukocyte adhesiveness and in the variations of circulating white blood cell populations induced by anti-CD3 monoclonal ..." in: **Transplant international : official journal of the European Society for Organ Transplantation**, Vol. 9, Issue 4, pp. 386-91, (1997) ([PubMed](#)).

Henrickson, Reid, Bellet, Sawchuk, Hirsch: "Comparison of in vivo efficacy and mechanism of action of antimurine monoclonal antibodies directed against TCR alpha beta (H57-597) and CD3 (145-2C11)." in: **Transplantation**, Vol. 60, Issue 8, pp. 828-35, (1995) ([PubMed](#)).

Vossen, Tibbe, Kroos, van de Winkel, Benner, Savelkoul: "Fc receptor binding of anti-CD3 monoclonal antibodies is not essential for immunosuppression, but triggers cytokine-related side effects." in: **European journal of immunology**, Vol. 25, Issue 6, pp. 1492-6, (1995) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



Flow Cytometry

Image 1. Surface staining of CD3 in murine splenocytes with anti-CD3 (145-2C11) PerCP.