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Datasheet for ABIN457334 anti-CD3 antibody (FITC)

3 Images

9 Publications



Overview

Quantity:	0.1 mg
Target:	CD3
Reactivity:	Mouse
Host:	Armenian Hamster
Clonality:	Monoclonal
Conjugate:	This CD3 antibody is conjugated to FITC
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 fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.	

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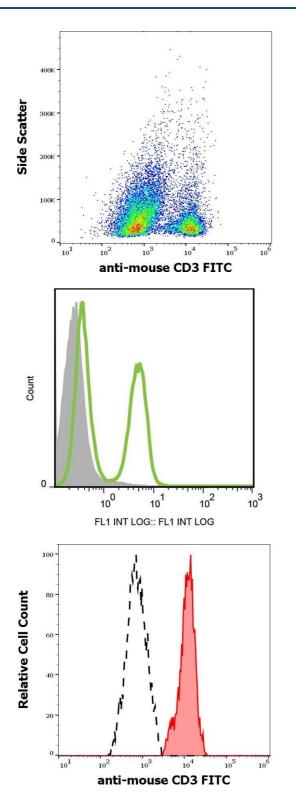
Target Details

Target:	CD3	
Alternative Name:	CD3 (CD3 Products)	
Background:	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 Purkynje 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	
Gene ID:	12501	
UniProt:	P22646	
Pathways:	TCR Signaling, Ubiquitin Proteasome Pathway	
Application Details		
Application Notes:	Flow cytometry: Recommended dilution: 1-3 µg/mL.	
Comment:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC.	
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.	

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	Avoid prolonged exposure to light.	
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, Gershenzon, 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).	
	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	
).	
	Jacobs, Vandeputte, Tolkamp, de Vries, Borst, Berns: "CD3 components at the surface of pro-T	
	cells can mediate pre-T cell development in vivo." in: European journal of immunology, Vol. 24,	
	Issue 4, pp. 934-9, (1994) (PubMed).	
	There are more publications referencing this product on: Product page	



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of murine splenocyte suspension stained using anti-mouse CD3 (145-2C11) FITC antibody (concentration in sample 1 μ g/mL).

Flow Cytometry

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

Flow Cytometry

Image 3. Separation of murine CD3 positive cells (red-filled) from CD3 negative cells (black-dashed) in flow cytometry analysis (surface staining) of murine splenocyte suspension stained using anti-mouse CD3 (145-2C11) FITC antibody (concentration in sample 1 μ g/mL).

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