

# Datasheet for ABIN6655178 anti-CD3 epsilon antibody (FITC)

# 2 Images



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#### Overview

Quantity:	500 μL
Target:	CD3 epsilon (CD3E)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD3 epsilon antibody is conjugated to FITC
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP)

# **Product Details**

Purpose:	CD3 Fluorescein Antibody
Immunogen:	Anti-CD3 Antibody (Monoclonal) was produced by repeated immunizations with CD3 antigen.
Clone:	UCHT1
Isotype:	IgG1 kappa
Cross-Reactivity (Details):	Reactivity is observed against human and chimpanzee.
Purification:	Fluorescein conjugated CD3 Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against human CD3.
Sterility:	Sterile filtered
Labeling Ratio:	2-8

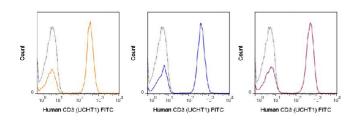
# **Target Details**

Target:	CD3 epsilon (CD3E)
Alternative Name:	CD3E (CD3E Products)
Background:	Synonyms: T-cell surface glycoprotein CD3 epsilon chain, T-cell surface antigen T3/Leu-4
	epsilon chain, CD3e
	Background: The UCHT1 antibody is specific for human CD3e, also known as CD3 epsilon, a 20
	kDa subunit of the T cell receptor complex, along with CD3 gamma and CD3 delta. These
	integral membrane protein chains assemble with additional chains of the T cell receptor (TCR),
	as well as CD3 zeta chain, to form the T cell receptor - CD3 complex. Together with co-
	receptors CD4 or CD8, the complex serves to recognize antigens bound to MHC molecules on
	antigen-presenting cells. These interactions promote T cell receptor signaling (T cell activation)
	inducing cell proliferation, differentiation, production of cytokines or activation-induced cell
	death. CD3 is differentially expressed during thymocyte-to-T cell development and on all matur
	T cells. The UCHT1 antibody is a widely used phenotypic marker for human T cells. In addition,
	binding/cross-linking of UCHT1 antibody to CD3e can induce cell activation. A recent
	publication of the crystal structure of a CD3e- antibody complex provides insight as to the
	action of commonly used agonist antibodies, as well as specific epitope-binding data for the
	human CD3 antibodies UCHT1 and OKT3. UCHT1 antibody reacts with both surface-expressed
	and intracellular CD3e protein, in contrast to an alternative human CD3 clone, HIT3a, which will
	stain only the extracellular (membrane-expressed) CD3e protein. Also, the UCHT1 antibody is
	reported to be cross-reactive with chimpanzee and has been used for phenotypic analysis of
	expression by flow cytometry, however the antibody is reported to be unsuitable for induction of
	T cell activation in this species.
	Gene Name: CD3E
Gene ID:	916
NCBI Accession:	NP_000724
UniProt:	P07766
Pathways:	TCR Signaling, CXCR4-mediated Signaling Events, Ubiquitin Proteasome Pathway
Application Details	
Application Notes:	Immunoprecipitation_Dilution: User Optimized
	Immunohistochemistry_Dilution: User Optimized
	Flow_Cytometry_Dilution: 5µL/test/1x10e5 to 1x10e8 cells
	Western_Blot_Dilution: User Optimized

# **Application Details**

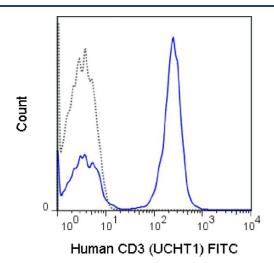
should be handled by trained staff only.  Storage: 4 °C  Storage Comment: Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C at	Comment:	Anti-CD3 has been tested in Flow Cytometry and is useful for Immunoprecipitation and Immunohistochemistry. Researchers should determine optimal titers for applications that are not stated.
Format:  Liquid  Buffer: 0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2  Stabilizer: 0.1 % Gelatin Preservative: 0.09 % (w/v) Sodium Azide  Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE should be handled by trained staff only.  Storage: 4 °C  Storage Comment: Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C a undiluted liquid. Dilute only prior to immediate use. DO NOT FREEZE. This product sensitive.	Restrictions:	For Research Use only
Buffer: Buffer: 0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 0.1 % Gelatin Preservative: 0.09 % (w/v) Sodium Azide  Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE should be handled by trained staff only.  Storage: 4 °C  Storage Comment: Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C a undiluted liquid. Dilute only prior to immediate use. DO NOT FREEZE. This product sensitive.	Handling	
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Precaution of Use:  This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE should be handled by trained staff only.  Storage:  4 °C  Storage Comment:  Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C a undiluted liquid. Dilute only prior to immediate use. DO NOT FREEZE. This product sensitive.	Buffer:	Stabilizer: 0.1 % Gelatin
should be handled by trained staff only.  Storage:  4 °C  Storage Comment:  Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C a undiluted liquid. Dilute only prior to immediate use. DO NOT FREEZE. This product sensitive.	Preservative:	Sodium azide
Storage Comment: Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C a undiluted liquid. Dilute only prior to immediate use. DO NOT FREEZE. This product sensitive.	Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
undiluted liquid. Dilute only prior to immediate use. DO NOT FREEZE. This product sensitive.	Storage:	4°C
Expiry Date: 6 months	Storage Comment:	Store vial at 4° C prior to opening. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. DO NOT FREEZE. This product is light sensitive.
Images		6 months

# **Images**



#### **Flow Cytometry**

Image 1. Flow Cytometry of Mouse anti-CD3 Fluorescein Conjugated Monoclonal Antibody. Cells: human peripheral blood lymphocytes. Stimulation: none. Antibody: (GRAY) 1 ug FITC Mouse IgG1 isotype control; (ORANGE) Fluorescein Anti-CD3 mouse antibody; (BLUE) Fluorescein Anti-CD3 mouse antibody; (RED) Fluorescein Anti-CD3 mouse antibody using 5 ul (1 ug).



### **Flow Cytometry**

Image 2. Flow Cytometry - Mouse anti-CD3 FITC Flow Cytometry of Mouse anti-CD3 Fluorescein Conjugated Monoclonal Antibody. Cells: human peripheral blood lymphocytes. Stimulation: none. Antibody: (GRAY) 1 ug FITC Mouse IgG1 isotype control; (BLUE) Fluorescein Anti-CD3 mouse antibody using 5 ul (1 ug).