



Rat Anti-Mouse CD3 Monoclonal antibody, clone 17A2 (CABT-L4310)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

The 17A2 monoclonal antibody reacts with mouse CD3, a transmembrane cell-surface protein that belongs to the immunoglobulin superfamily. CD3 associates with TCR α/β or γ/δ chains to form the TCR complex. CD3 is expressed on T lymphocytes, NK-T cells, and to varying degrees on developing thymocytes. CD3 plays roles in TCR signaling, T lymphocyte activation, and antigen recognition. The 145-2C11 antibody has been shown to block the binding of the 17A2 antibody suggesting that the 17A2 antibody recognizes an epitope of the CD3 ϵ chain. Treatment with the 17A2 antibody *in vivo* has been reported to partially deplete T lymphocytes and temporarily down-modulate CD3 expression on T cells.

Target	Mouse CD3
Immunogen	$\gamma\delta$ TCR-positive T-T hybridoma D1
Isotype	IgG2b, κ
Source/Host	Rat
Species Reactivity	Mouse
Clone	17A2
Purification	Protein G purified. Purity>95%. Determined by SDS-PAGE
Conjugate	Functional Grade
Applications	in vitro?T cell stimulation/activation
Molecular Weight	150 kDa
Format	0.2 μ M filtered liquid. Purified from tissue culture supernatant in an animal free facility

Concentration	Lot specific
Size	5 mg
Buffer	PBS, pH 7.0. Contains no stabilizers or preservatives. [low endotoxin azide-free] Endotoxin level: <2EU/mg (<0.002EU/µg). Determined by LAL gel clotting assay Related dilution buffer: CABT-LB04
Preservative	None
Storage	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
Ship	Wet ice

BACKGROUND

Introduction	The CD3 complex mediates signal transduction.
Keywords	4930549J05Rik; A430104F18Rik; AW552088; CD 3; Cd247; CD247 antigen; CD247 antigen, zeta subunit; CD247 molecule; CD3; CD3 antigen, delta subunit

GENE INFORMATION

Official Symbol	CD3
Synonyms	4930549J05Rik; A430104F18Rik; AW552088; CD 3; Cd247; CD247 antigen; CD247 antigen, zeta subunit; CD247 molecule; CD3; CD3 antigen, delta subunit
References	Choi, Y. S., et al. (2015). "LEF-1 and TCF-1 orchestrate TFH differentiation by regulating differentiation circuits upstream of the transcriptional repressor Bcl6." <i>Nat Immunol</i> 16(9): 980-990. PubMed;