



# Mouse Anti-Human CD3 Monoclonal antibody, clone UCHT1 (Leu-4) (T3) (CABT-L4485)

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

## PRODUCT INFORMATION

### Product Overview

The UCHT1 (Leu-4)(T3) monoclonal antibody reacts with human CD3 $\epsilon$  a 20 kDa transmembrane cell-surface protein that belongs to the immunoglobulin superfamily. CD3 $\epsilon$  is one of five polypeptide chains that combine to form the TCR complex. CD3 $\epsilon$  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. Crosslinking of the TCR via immobilized UCHT1 (Leu-4)(T3) antibody is commonly used to activate T cells in vitro.

<b>Target</b>	Human CD3
<b>Immunogen</b>	Human CD3 $\epsilon$
<b>Isotype</b>	IgG1, $\kappa$
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	UCHT1 (Leu-4) (T3)
<b>Purification</b>	Protein G purified. Purity>95%. Determined by SDS-PAGE
<b>Conjugate</b>	Functional Grade
<b>Applications</b>	in vivo T cell depletion in humanized mice, ex vivo T cell inhibition for xenographs, FC
<b>Molecular Weight</b>	150 kDa
<b>Format</b>	0.2 $\mu$ M filtered liquid. Purified from tissue culture supernatant in an animal free facility
<b>Concentration</b>	Lot specific

<b>Size</b>	5 mg
<b>Buffer</b>	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
<b>Preservative</b>	None
<b>Storage</b>	The antibody solution should be stored undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.
<b>Ship</b>	Wet ice

## BACKGROUND

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

## GENE INFORMATION

<b>Official Symbol</b>	CD3
<b>Synonyms</b>	4930549J05Rik; A430104F18Rik; AW552088; CD 3; Cd247; CD247 antigen; CD247 antigen, zeta subunit; CD247 molecule; CD3; CD3 antigen, delta subunit
<b>References</b>	Wunderlich, M., et al. (2014). "OKT3 prevents xenogeneic GVHD and allows reliable xenograft initiation from unfractionated human hematopoietic tissues." <i>Blood</i> 123(24): e134-144. PubMed;