



Anti-CD4 monoclonal antibody, clone RPA-T4 [R-PE] (CABT-45100MH)

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

PRODUCT INFORMATION

Product Overview

Mouse anti human CD4 antibody, clone RPA-T4 recognizes human CD4, a 55kD cell surface glycoprotein that is primarily expressed on a subpopulation of T lymphocytes, on peripheral blood monocytes and on tissue macrophages. Epitope mapping studies have shown that antibodies, produced by clone RPA-T4, recognize an epitope within domain 1, of the extracellular region, of the CD4 molecule. Mouse anti human CD4 antibody, clone RPA-T4 has been reported to block gp120-CD4 interaction and inhibit syncytium formation. Flow Cytometry Use 10ul of the suggested working dilution to label 106 cells or 100ul whole blood

Specificity	CD4
Immunogen	Human PHA blasts.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	RPA-T4
Conjugate	R-PE
Applications	FC
Procedure	Conjugated Antibodies
Format	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised
Size	100 Tests
Preservative	0.09% Sodium Azide 1% Bovine Serum Albumin 5% Sucrose
Storage	Prior to reconstitution store at +4°C. Following reconstitution store at +4°C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.
Warnings	For research purposes only

GENE INFORMATION

Gene Name	CD4 CD4 molecule [Homo sapiens (human)]
Official Symbol	CD4
Synonyms	CD4; CD4 molecule; CD4mut; T-cell surface glycoprotein CD4; CD4 receptor; CD4 antigen (p55); T-cell surface antigen T4/Leu-3;
Entrez Gene ID	920
mRNA Refseq	NM_000616
Protein Refseq	NP_000607
MIM	186940
UniProt ID	P01730
Chromosome Location	12p13.31
Pathway	Adaptive Immune System; Alpha-defensins; Antigen processing and presentation; Arf1 pathway; Binding and entry of HIV virion; C-MYB transcription factor network; CXCR4-mediated signaling events; Cell adhesion molecules (CAMs);
Function	MHC class II protein binding; coreceptor activity; enzyme binding; extracellular matrix structural constituent; glycoprotein binding; protein binding; protein homodimerization activity; protein kinase binding; receptor activity; transmembrane signaling receptor activity; zinc ion binding;