

# PE Anti-TCR alpha + TCR beta antibody [IP26] ab99857

## 1 References

### Overview

<b>Product name</b>	PE Anti-TCR alpha + TCR beta antibody [IP26]
<b>Description</b>	PE Mouse monoclonal [IP26] to TCR alpha + TCR beta
<b>Host species</b>	Mouse
<b>Conjugation</b>	PE. Ex: 488nm, Em: 575nm
<b>Specificity</b>	Recognizes a monomorphic determinant of TCR alpha/beta, the dominant subtype of T cell receptor expressed in human peripheral blood.
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Human TCR alpha + TCR beta
<b>Positive control</b>	Human peripheral blood T cells
<b>General notes</b>	<p>Short term exposure to room temperature should not affect the quality of the reagent. However, if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.</p> <p>The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. No reconstitution is necessary.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	<p>pH: 7.4</p> <p>Preservative: 0.097% Sodium azide</p> <p>Constituents: 0.2% BSA, PBS</p>
<b>Purity</b>	Size exclusion

<b>Purification notes</b>	The unconjugated antibody was purified by protein A (G) affinity chromatography (>95% by SDS-PAGE). After conjugation, the antibody was purified by size exclusion chromatography and adjusted for direct use.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	IP26
<b>Isotype</b>	IgG1

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab99857 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration. or 100 Åµl of whole blood.

## Target

**Relevance** The receptors on T cells consist of immunoglobulin like integral membrane glycoproteins containing 2 polypeptide subunits, alpha and beta, of similar molecular weight, 40 to 55 kD in the human. Like the immunoglobulins of the B cells, each T cell receptor subunit has, external to the cell membrane, an N terminal variable domain and a C terminal constant domain. T cell receptors recognise foreign antigens which have been processed as small peptides and bound to major histocompatibility complex molecules at the surface of antigen presenting cells. Each T cell receptor is a dimer consisting of one alpha and one beta chain or one delta and one gamma chain. In a single cell, the T cell receptor loci are rearranged and expressed in the order delta, gamma, beta, and alpha. If both delta and gamma rearrangements produce functional chains, the cell expresses delta and gamma. If not, the cell proceeds to rearrange the beta and alpha loci.

**Cellular localization** Type I membrane protein.

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