

## Product datasheet

# Anti-TCR alpha + TCR beta antibody [H57-597] ab25336

### 9 References

#### Overview

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<b>Product name</b>	Anti-TCR alpha + TCR beta antibody [H57-597]
<b>Description</b>	Armenian hamster monoclonal [H57-597] to TCR alpha + TCR beta
<b>Host species</b>	Armenian hamster
<b>Specificity</b>	ab25336 reacts with a common epitope of the $\beta$ chain of the mouse $\alpha\beta$ T cell receptor (TCR) complex.
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse
<b>Immunogen</b>	TCR affinity purified from T-cell hybridoma DO-11.10 (Mouse)
<b>General notes</b>	<p>ab25336 does not react with yd TCR-bearing cells. Plate-bound or soluble ab25336 activates <math>\alpha\beta</math> TCR-bearing T cells. In vitro and in vivo, ab25336 can induce immature thymocytes to undergo apoptosis. In vivo administration of ab25336 has been shown to deplete <math>\alpha\beta</math> TCR-bearing cells to near completion and prevent graft rejection.</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

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	<p>pH: 7.20</p> <p>Preservative: 0.09% Sodium azide</p> <p>Constituents: 0.87% Sodium chloride, 0.14% Monobasic dihydrogen sodium phosphate</p>
<b>Purity</b>	Affinity purified
<b>Purification notes</b>	Purified from tissue culture supernatant
<b>Primary antibody notes</b>	ab25336 does not react with yd TCR-bearing cells. Plate-bound or soluble ab25336 activates $\alpha\beta$ TCR-bearing T cells. In vitro and in vivo, ab25336 can induce immature thymocytes to undergo

apoptosis. In vivo administration of ab25336 has been shown to deplete  $\alpha\beta$  TCR-bearing cells to near completion and prevent graft rejection.

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	H57-597
<b>Isotype</b>	IgG

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## Target

<b>Relevance</b>	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.
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<b>Cellular localization</b>	Type I membrane protein.
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