

Product datasheet

FITC Anti-TCR alpha + TCR beta antibody [H57-597] ab25010

[1 References](#) [1 Image](#)

Overview

Product name	FITC Anti-TCR alpha + TCR beta antibody [H57-597]
Description	FITC Armenian hamster monoclonal [H57-597] to TCR alpha + TCR beta
Host species	Armenian hamster
Conjugation	FITC. Ex: 493nm, Em: 528nm
Specificity	Common epitope of the β chain of the mouse $\alpha\beta$ T cell receptor (TCR) complex.
Tested applications	Suitable for: Flow Cyt
Species reactivity	Reacts with: Mouse
Immunogen	TCR affinity purified from T-cell hybridoma DO-11.10 (Mouse)
General notes	<p>ab25010 can be used for in vitro stimulation of alpha beta TCR-expressing T cells and in vitro and in vivo depletion of $\alpha\beta$ TCR-bearing cells. Plate-bound or soluble ab25010 activates $\alpha\beta$ TCR bearing T cells.</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&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze. Store undiluted.
Storage buffer	pH: 7.20 Preservative: 0.09% Sodium azide Constituents: 0.14% Monobasic dihydrogen sodium phosphate, 0.87% Sodium chloride, 0.1% Gelatin
Purity	Affinity purified
Purification notes	Purified from TCS

Primary antibody notes	ab25010 can be used for in vitro stimulation of alpha beta TCR-expressing T cells and in vitro and in vivo depletion of $\alpha\beta$ TCR-bearing cells. Plate-bound or soluble ab25010 activates $\alpha\beta$ TCR bearing T cells.
Clonality	Monoclonal
Clone number	H57-597
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab25010 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

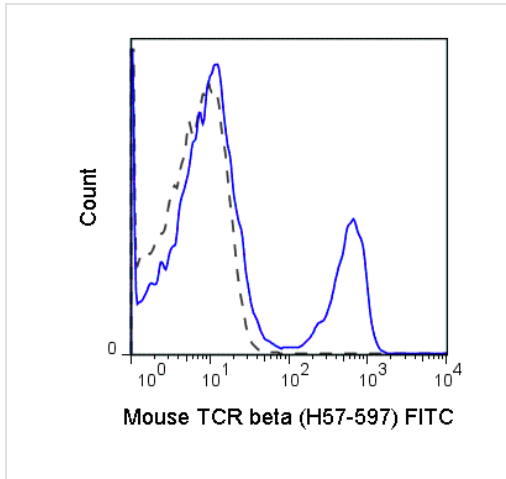
Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration.

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.

Images



Flow Cytometry analysis of C57Bl/6 splenocytes labeling TCR alpha + TCR beta with ab25010 at 0.25 μ g (solid line). Armenian hamster IgG (FITC) isotype control at 0.25 μ g (dashed line).

Flow Cytometry - FITC Anti-TCR alpha + TCR beta antibody [H57-597] (ab25010)

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