abcam

Product datasheet

Anti-TCR alpha + TCR beta antibody [IP26] (Biotin) ab95647

Overview

Product name	Anti-TCR alpha + TCR beta antibody [IP26] (Biotin)
Description	Mouse monoclonal [IP26] to TCR alpha + TCR beta (Biotin)
Host species	Mouse
Conjugation	Biotin
Tested applications	**Suitable for:** Flow Cyt
Species reactivity	**Reacts with:** Human
Immunogen	Human TCR alpha + TCR beta
Positive control	Normal human peripheral blood cells

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium Azide Constituents: PBS, 150mM Sodium chloride, pH 7.2
Purity	Protein G purified
Clonality	Monoclonal
Clone number	IP26
Isotype	IgG1
Light chain type	kappa

Applications

Our Abpromise guarantee covers the use of **ab95647** 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 0.5µg for 10^{5-8} cells. ab18434 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

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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