abcam

Product datasheet

Anti-TCR gamma + TCR delta antibody [5A6.E91] (FITC) ab171110

1 References 2 Images

Overview

Product name	Anti-TCR gamma + TCR delta antibody [5A6.E91] (FITC)
Description	Mouse monoclonal [5A6.E91] to TCR gamma + TCR delta (FITC)
Host species	Mouse
Conjugation	FITC. Ex: 493nm, Em: 528nm
Tested applications	**Suitable for:** ELISA, Blocking, ICC, IHC, Flow Cyt
Species reactivity	**Reacts with:** Human, Non human primates
Immunogen	Full length protein corresponding to Human TCR gamma + TCR delta.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. Store In the Dark.
Storage buffer	Preservative: 0.1% Sodium azide Constituents: PBS, 0.5% BSA, Glycerol
Purity	Protein A purified
Clonality	Monoclonal
Clone number	5A6.E91
Isotype	IgG1

Applications

Our Abpromise guarantee covers the use of **ab171110** 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
ELISA		Use at an assay dependent concentration.

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Blocking		Use at an assay dependent concentration.
ICC		Use at an assay dependent concentration.
IHC		Use at an assay dependent concentration.
Flow Cyt		1/20. ab91356 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

Target

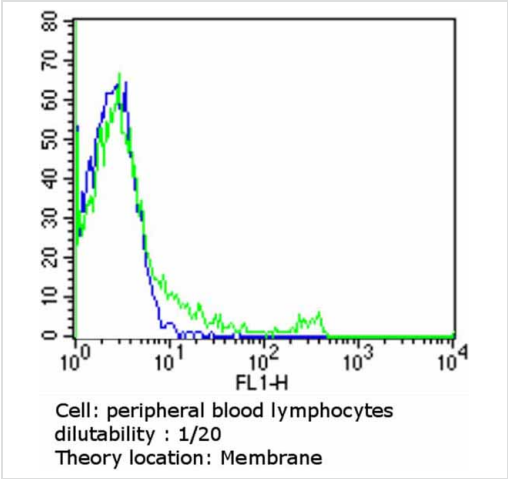
Relevance

T cell receptors (TCR) recognize foreign antigens which have been processed as small peptides and bound to major histocompatibility complex (MHC) molecules at the surface of antigen presenting cells (APC). Each T cell receptor is a dimer consisting of one a and one b chain or one d and one g chain. This region represents the germline organization of the T cell receptor beta locus. The beta locus includes V (variable), J (joining), diversity (D), and C (constant) segments. During T cell development, the beta chain is synthesized by a recombination event at the DNA level joining a D segment with a J segment; a V segment is then joined to the D-J gene. The C segment is later joined by splicing at the RNA level. The g/d TCR associates with CD3 and is expressed on a T cell subset found in the thymus, the intestinal epithelium, and the peripheral lymphoid tissues and peritoneum. Most g/d T cells are CD4-/CD8-, some are CD8+. T cells expressing the g/d TCR have been shown to play a role in oral tolerance, tumor-associated tolerance, and autoimmune disease.

Cellular localization

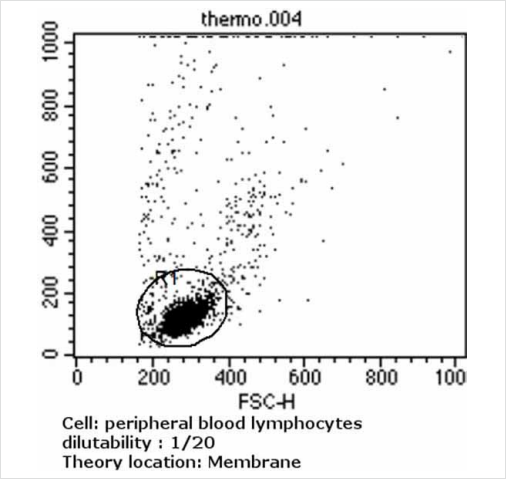
Type I membrane protein

Images



Flow Cytometry - Anti-TCR gamma + TCR delta antibody [5A6.E91] (FITC) (ab171110)

Flow cytometry analysis of TCR gamma + TCR delta showing positive staining in the membrane of peripheral blood mononuclear cells compared to an isotype control (blue). Human blood was collected and combined with a hydrophilic polysaccharide then centrifuged. Samples transferred to a conical tube and washed with PBS. 50 ul of cell solution was added to each tube at a dilution of 2x10^7 cells/ml and 50 ul of isotype control and ab171110 at 1:20 added. Cells were incubated for 30 min at 4°C and washed with a cell buffer and incubated with a DyLight 488-conjugated goat anti-mouse IgG (H+L) secondary for 30 min at 4°C in the dark. FACS analysis was performed using 400 ul of cell buffer.



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