

## Product datasheet

# FITC Anti-TCR V alpha 12.1 antibody [6D6.6] ab171107

2 Images

### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | FITC Anti-TCR V alpha 12.1 antibody [6D6.6]   |
| <b>Description</b>         | FITC Mouse monoclonal [6D6.6] to TCR V alpha 12.1   |
| <b>Host species</b>        | Mouse   |
| <b>Conjugation</b>         | FITC. Ex: 493nm, Em: 528nm  |
| <b>Tested applications</b> | <b>Suitable for:</b> Flow Cyt   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human   |
| <b>Immunogen</b>           | Full length protein corresponding to Human TCR V alpha 12.1 aa 1 to the C-terminus. Native protein<br>Database link: <a href="#">P01848</a> |

 [Run BLAST with](#)

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### General notes

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.

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

### Properties

|                             |  |
|-----------------------------|--|
| <b>Form</b>                 | Liquid   |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C. Store In the Dark.                  |
| <b>Storage buffer</b>       | Preservative: 0.1% Sodium azide<br>Constituents: 99% PBS, 0.5% BSA |
| <b>Purity</b>               | Protein A purified   |
| <b>Clonality</b>            | Monoclonal   |
| <b>Clone number</b>         | 6D6.6  |
| <b>Isotype</b>              | IgG1   |

### Applications

## The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab171107 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    |           | 1/20.<br><b>ab91356</b> - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody. |

## Target

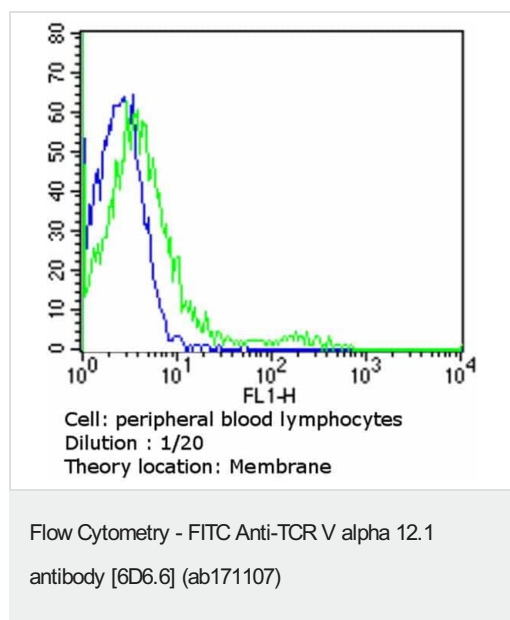
### Relevance

The ability of T cell receptors (TCR) to discriminate foreign from self-peptides presented by major histocompatibility complex (MHC) class II molecules is essential for an effective adaptive immune response. TCR recognition of self-peptides has been linked to autoimmune disease. Mutant self-peptides have been associated with tumors. Engagement of TCRs by a family of bacterial toxins known as superantigens has been responsible for toxic shock syndrome. Autoantibodies to V beta segments of T cell receptors have been isolated from patients with rheumatoid arthritis (RA) and systemic lupus erythematosus (SLE). The autoantibodies block TH1-mediated inflammatory autodestructive reactions and are believed to be a method by which the immune system compensates for disease.

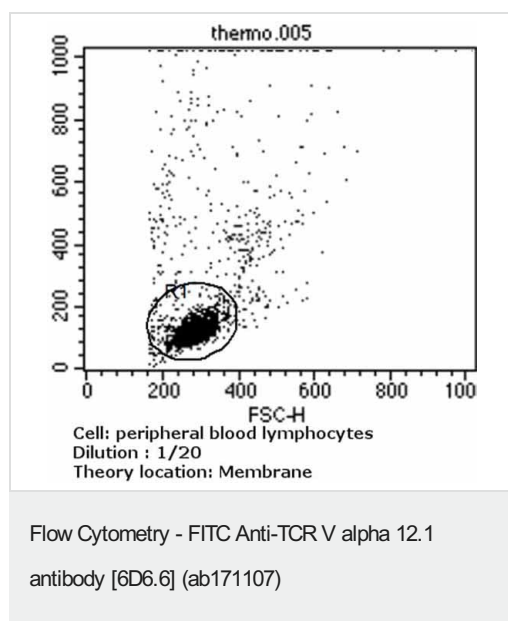
### Cellular localization

Membrane; Single-pass membrane protein

## Images



Flow cytometry analysis of TCR V alpha 12.1 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 were transferred to a conical tube and washed with PBS. 50 ul of cell solution was added to each tube at a dilution of  $2 \times 10^7$  cells/ml and 50 ul of isotype control and ab171107 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.



Flow cytometry analysis of TCR V alpha 12.1 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 were transferred to a conical tube and washed with PBS. 50 ul of cell solution was added to each tube at a dilution of  $2 \times 10^7$  cells/ml and 50 ul of isotype control and ab171107 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.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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