

## Product datasheet

# Dual color: FITC + PE Anti-CD4 + CD8 antibody [EDU-2 + 733] ab1232

## 1 References

### Overview

|                            |   |
|----------------------------|---|
| <b>Product name</b>        | Dual color: FITC + PE Anti-CD4 + CD8 antibody [EDU-2 + 733]   |
| <b>Description</b>         | Dual color: FITC + PE Mouse monoclonal [EDU-2 + 733] to CD4 + CD8   |
| <b>Host species</b>        | Mouse   |
| <b>Conjugation</b>         | Dual color: FITC + PE   |
| <b>Tested applications</b> | <b>Suitable for:</b> Flow Cyt   |
| <b>Species reactivity</b>  | <b>Reacts with:</b> Human   |
| <b>Immunogen</b>           | Tissue, cells or virus. Stimulated human leukocytes   |
| <b>General notes</b>       | <p>This cocktail is mix of: CD4 = Clone:EDU-2, Isotype:IgG2a, Labeled with FITC and CD8 = Clone:733, Isotype:IgG1, Labeled with PE. This product contains sodium azide, which under acid conditions yields hydrazoic acid, a toxic compound. Azide compounds should be diluted with running water before being discarded to avoid deposits in lead or copper plumbing where explosive conditions may develop.</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> <p>Please note that this antibody is an oligoclonal antibody. It is a cocktail of monoclonal antibodies that have been carefully selected. Oligoclonal antibodies have not only the specificity and batch-to-batch consistency of a monoclonal antibody, but also have the advantage of the sensitivity of a polyclonal antibody due to their ability to recognize multiple epitopes on an antigen.</p> |

### Properties

|                             |                                 |
|-----------------------------|---------------------------------|
| <b>Form</b>                 | Liquid                          |
| <b>Storage instructions</b> | Shipped at 4°C. Store at +4°C.  |
| <b>Storage buffer</b>       | Preservative: 0.1% Sodium azide |

|                         |                       |
|-------------------------|-----------------------|
|                         | Constituent: 0.5% BSA |
| <b>Clonality</b>        | Monoclonal            |
| <b>Clone number</b>     | EDU-2 + 733           |
| <b>Myeloma</b>          | unknown               |
| <b>Light chain type</b> | unknown               |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab1232 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    |           |       |

**Application notes**

Percentage count of T helper/inducer lymphocytes (CD4+) in human lysed whole peripheral blood or mononuclear cells separated by density gradient.

Percentage count of T suppressor/cytotoxic lymphocytes (CD8+).

Control autoimmune pathologies, immunodeficiencies and immunosuppressivetherapies.

Studies of HIV (Human Immunodeficiency Virus) infection.

CD4(FITC) / CD8 (PE) immunofluorescence analysis can be performed on a flow cytometerequipped with an excitation source of 488nm and fitted with logarithmic amplifiers.

10µl of CD4(FITC) / CD8 (PE) is sufficient for labelling  $1 \times 10^6$  cells.

## Target

**Relevance**

CD4 is a single chain transmembraneous glycoprotein (59 kDa) which belongs to the immunoglobulin superfamily. CD4 is present on a subset of T lymphocytes ("helper/inducer" T cells) and is also expressed at a lower level on monocytes, tissue macrophages and granulocytes. The antigen is involved in binding to MHC class II molecules. The intracellular domain of the antigen is associated with p56lck protein tyrosine kinase. The CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell to cell interactions within the immune system. The CD8 antigen, acting as a coreceptor, and the T cell receptor on the T lymphocyte recognize antigen displayed by an antigen presenting cell (APC) in the context of class I MHC molecules. The functional coreceptor is either a homodimer composed of two alpha chains, or a heterodimer composed of one alpha and one beta chain. Both alpha and beta chains share significant homology to immunoglobulin variable light chains.

**Cellular localization** Membrane; single pass type I membrane protein.

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

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