

## DESCRIPTION

|                                                                                                                                                                                                         |                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                           |
| <b>Specificity</b>                                                                                                                                                                                      | Detects recombinant human CD8 in direct ELISA                                   |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Human IgG <sub>1</sub> Clone # 30798-1                               |
| <b>Purification</b>                                                                                                                                                                                     | Protein G purified from cell culture supernatant                                |
| <b>Immunogen</b>                                                                                                                                                                                        | Alpha chain of CD8<br>Accession # P01732                                        |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 532<br>Excitation Wavelength: 534 nm<br>Emission Wavelength: 553 nm |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                    |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                 |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**Cell Depletion** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## BACKGROUND

This Bio-Techne CD8 antibody is a reformatted version of the RPA-T8 clone. CD8 is a heterodimeric glycoprotein consisting of an alpha and beta chain. It is expressed on cytolytic T cells and functions in conjunction with the T cell receptor in the recognition of MHC/peptide complexes. There are two isoforms of the protein, alpha and beta, each encoded by a different gene. In humans, both genes are located on chromosome 2 in position 2p12. The most common form of CD8 is composed of a CD8- $\alpha$  and CD8- $\beta$  chain, both members of the immunoglobulin superfamily with an immunoglobulin variable (IgV)-like extracellular domain connected to the membrane by a thin stalk, and an intracellular tail. Less-common homodimers of the CD8- $\alpha$  chain are also expressed on some cells.

## PRODUCT SPECIFIC NOTICES

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