

## PRODUCT DESCRIPTION:

A combination of mouse and rat monoclonal antibodies purified from mouse ascites or hybridoma culture supernatant. Purified by affinity chromatography using Protein A or Protein G Sepharose. These antibodies are bound in bispecific Tetrameric Antibody Complexes (TAC), which are directed against CD25 and dextran. The subclass of the mouse monoclonal antibody is IgG<sub>1</sub>.

## SPECIFICITY:

This TAC recognizes human CD25 cell surface antigens and dextran. CD25, the IL-2 receptor alpha chain, forms part of the IL-2 receptor complex. It is expressed on activated T and B cells and on monocytes.

## FORMAT:

**Catalog #14231** – contains 1 x 14231C.1

**Catalog #14251** – contains 2 x 14231C.1

Supplied at a concentration of **300 µg/mL** in phosphate buffered saline containing < 0.1% (w/v) sodium azide.

*It should be kept in mind that this product is a biological reagent, and as such cannot be completely characterized or quantified. Some variability is unavoidable.*

## STABILITY AND STORAGE:

Store at 2 – 8 °C. DO NOT FREEZE. Stable for 2 years. Contents sterile in unopened tube.

## APPLICATIONS:

Deplete CD25<sup>+</sup> cells from human peripheral blood mononuclear cell samples by combining CD25 TAC with StemSep<sup>®</sup> or EasySep<sup>®</sup> magnetic cell separation.

To isolate resting human CD4<sup>+</sup> or CD8<sup>+</sup> T cells:

Add CD25 TAC with either **StemSep<sup>®</sup> CD4<sup>+</sup> or CD8<sup>+</sup> T Cell Enrichment** cocktails (Catalog #14052, 14053), **StemSep<sup>®</sup> B Cell Enrichment** cocktail (Catalog #14054), or **EasySep<sup>®</sup> CD4<sup>+</sup> or CD8<sup>+</sup> T Cell Enrichment** cocktails (Catalog #19052, 19053) or **EasySep<sup>®</sup> B Cell Enrichment** cocktail (Catalog #19054).

## DIRECTIONS FOR USE:

Centrifuge tube before using to ensure recovery of entire contents.

**Add TAC at 10 µL/mL of cells** prepared at a concentration of  $5 \times 10^7$  cells/mL. Titration in the range of **0.1 – 3.0 µg/mL** final concentration may be required for optimal performance. When adding TAC with an enrichment cocktail, add the TAC during the same step as adding the cocktail to the cells.

Please contact us for detailed protocol information.

Refer to Material Safety Data Sheet for more information.

## REFERENCES:

1. Lansdorp PM, Aalberse RC, Bos R, Schutter W and Van Bruggen EFJ. Cyclic tetramolecular complexes of monoclonal antibodies: A new type of cross-linking reagent. Eur. J. Immunol. 1986; 16: 679.
2. Thomas TE, Sutherland HJ and Lansdorp PM. Specific binding and release of cells from beads using cleavable tetrameric antibody complexes. J. Immunol. Methods 1989; 120: 221.
3. Chun T-W, Engel D, Berrey MM, Shea T, Corey L, Fauci AS: Early establishment of a pool of latently infected, resting CD4<sup>+</sup> T cells during primary HIV-1 infection. Proc Natl Acad Sci USA 1998; 95: 8869.

## THIS REAGENT IS FOR RESEARCH ONLY. IT IS NOT TO BE ADMINISTERED TO HUMANS.

**Hazardous Ingredient: Sodium Azide.** Avoid exposure to skin and eyes, ingestion, and contact with heat, acids and metals. Wash exposed skin with soap and water. Flush eyes with water. Dilute with running water before discharging into plumbing.

## StemCell Technologies


**In North America**  
Tel: 1.604.877.0713  
Fax: 1.604.877.0704  
Toll Free Tel: 1.800.667.0322  
Toll Free Fax: 1.800.567.2899  
e-mail: info@stemcell.com  
[www.stemcell.com](http://www.stemcell.com)

**In the United Kingdom**  
Tel: +44.(0).20.7537.7565  
Fax: +44.(0).20.7515.5408  
Toll Free within United Kingdom:  
Tel: 0800.731.27.14  
Fax: 0800.731.27.13  
e-mail: info@stemcellgb.com

**In Europe**  
Tel: +33.(0).4.76.04.75.30  
Fax: +33.(0).4.76.18.99.63  
e-mail: info@stemcellfrance.com

Revised:  
May 2010

Product Information Sheet



Version 2.1.0

**ANTI-HUMAN**  
**CD25 TAC**  
Tetrameric Antibody  
Complex

Catalog #14231      100 µL  
Catalog #14251      200 µL