Product Information Sheet

ANTI-HUMAN TCRαβ TAC

Tetrameric Antibody Complex

Version 2.0.0

Catalog #14237 **100 µL**
Catalog #14257 **200 µL**

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 TCRαβ and dextran. The subclass of the mouse monoclonal antibody is IgG_1.

SPECIFICITY:

This TAC recognizes human TCRαβ cell surface antigens and dextran. TCRαβ is a common epitope on the T-cell receptor (TCR). Approximately 97% of normal peripheral blood T lymphocytes express both CD3 and TCRαβ. Over 50% of thymocytes express the TCRαβ antigen.

FORMAT:

Catalog #14237 – contains 1 x 14237C
Catalog #14257 – contains 2 x 14237C

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 - 8ºC. DO NOT FREEZE. Stable for 2 years. Contents sterile in unopened tube.

APPLICATIONS:

Deplete $TCR\alpha\beta^+$ T cells from human peripheral blood mononuclear cell samples by combining TCRαβ TAC with StemSep® or EasySep® magnetic cell separation.

To isolate human $\gamma\delta\ TCR^+$ T cells:
Add TCRαβ TAC with either **StemSep® T Cell Enrichment** cocktail (Catalog #14051) or **EasySep® T Cell Enrichment** cocktail (Catalog #19051).

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 5×10^7 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.

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.*

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