

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 CD45RA and dextran. The subclass of the mouse monoclonal antibody is IgG₁.

SPECIFICITY:

This TAC recognizes human CD45RA cell surface antigens and dextran. CD45RA is an isoform of the leukocyte common antigen. It is expressed on naïve T lymphocytes and antigen density decreases upon *in vitro* activation. CD45RA is also expressed on most B cells, NK cells and monocytes.

FORMAT:

Catalog #14233 – contains 1 x 14233C

Catalog #14253 – contains 2 x 14233C

Supplied at a concentration of **300 µg/mL** in phosphate buffered saline.
Does not contain sodium azide or BSA.

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 4°C. DO NOT FREEZE. Stable for 2 years.
Contents sterile in unopened tube.

APPLICATIONS:

Deplete CD45RA⁺ naïve T cells from human peripheral blood mononuclear cell samples by combining CD45RA TAC with StemSep[®] or EasySep[®] magnetic cell separation.

To isolate CD45RO⁺ memory human CD4⁺ or CD8⁺ T cells:

Add CD45RA TAC with either **StemSep[®] CD4⁺** or **CD8⁺ T Cell Enrichment** cocktails (Catalog #14052, 14053) or **EasySep[®] CD4⁺** or **CD8⁺ T Cell Enrichment** cocktails (Catalog #19052, 19053).

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.**

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Product Information Sheet



Version 2.0.0

**ANTI-HUMAN
CD45RA TAC**

Tetrameric Antibody
Complex

Catalog #14233	100 µL
Catalog #14253	200 µL