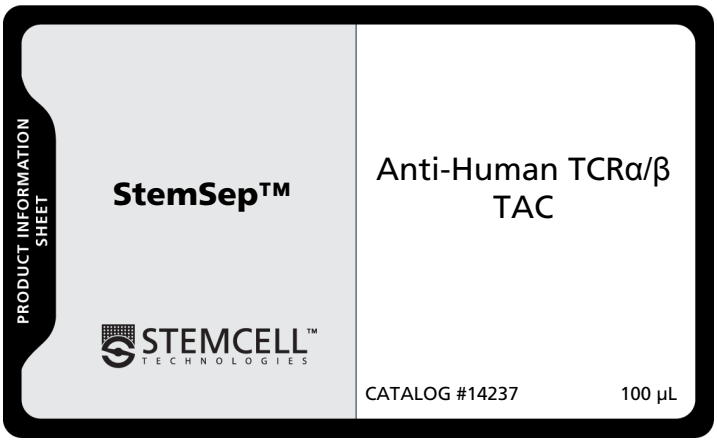
PRODUCT DESCRIPTION

A combination of mouse and rat monoclonal antibodies 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 T-cell receptor alpha/beta (TCRα/β) and dextran. The mouse monoclonal subclass is IgG1.

This TAC recognizes an epitope formed by the alpha beta chain of the human TCR and the CD3 epsilon chain and dextran. TCRα/β is a common epitope on the TCR. Approximately 97% of normal peripheral blood T lymphocytes express both CD3 and TCRα/β. Over 50% of thymocytes express the TCRα/β antigen.



RECOMMENDED FOR

Depletion of human TCRα/β^+ cells from human peripheral blood mononuclear cell samples by combining TCRα/β TAC with StemSep™ or EasySep™ magnetic cell separation.

To deplete human TCRα/β^+ T cells:

Add Anti-Human TCRα/β TAC with either StemSep™ Human T Cell Enrichment cocktail (Catalog #14051) or EasySep™ Human T Cell Enrichment cocktail (Catalog #19051).

COMPONENTS

14237C.1 Anti-Human TCRα/β TAC	100 µL

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

STABILITY AND STORAGE

Store at 2 - 8ºC. Stable until expiry date (EXP) on label.

DIRECTIONS FOR USE

1. Centrifuge tube before using to ensure recovery of entire contents.
2. Prepare cells at a concentration of 5 x 10^7 cells/mL.
3. Add Anti-Human TCRα/β TAC at **10 µL/mL of cells.** Titration in the range of **0.1 - 3.0 µg/mL** (final concentration) may be required for optimal performance.

   Note: When using a TAC with an enrichment cocktail, add the TAC at the same time as adding the cocktail to the cells.

Please contact STEMCELL Technologies' Technical Support at techsupport@stemcell.com for detailed protocol information.

ACCESSORY PRODUCTS

PRODUCT	CATALOG #
StemSep™ Human T Cell Enrichment Kit	14051
EasySep™ Human T Cell Enrichment Kit	19051

REFERENCES

1. Lansdorp PM, et al. Cyclic tetramolecular complexes of monoclonal antibodies: A new type of cross-linking reagent. Eur J Immunol 16(6): 679-683, 1986
2. Thomas TE, Sutherland HJ and Lansdorp PM. Specific binding and release of cells from beads using cleavable tetrameric antibody complexes. J Immunol Methods 120(2): 221-231, 1989