

New Product for T-cell Clonality!!!

TRBC1 FITC

(Cat:113315)

TRBC1 (T Cell Receptor β Constant 1) is a protein coding gene. Among its related pathways are: innate immune system and class I MHC mediated antigen processing and presentation. TRBC1 together with TRBC2 are two random and mutually exclusive expressions of one of two constant β chain genes after the rearrangement of the TCRB genes, analogous to the kappa and lambda gene utilization by B cells.

Current detection of T-cell clonality by T-cell receptor(TCR)V β repertoire evaluation using flow cytometry has been difficult due to its nature as a laborious complex assay and limited sensitivity for low levels of disease. **Therefore, there is large demand for a simple, rapid, and reliable assay.**

Recently a **single TRBC1 antibody, JOVI.1**, in conjunction with other T-cell associated markers, is validated for detecting T-cell clonality in cancer samples, providing a simple, rapid, and robust assay that can be routinely utilized in flow cytometry immunophenotyping.

JOVI-1, a mouse monoclonal antibody, specifically binds to an epitope of T lymphocytes expressing T cell receptor β constant 1 (TRBC1). By using the JOVI.1 antibody, the **TRBC1 assay identifies the clonality of T cell subsets with a highly sensitivity**. Therefore, neoplastic T-cell populations can be distinguished from nonneoplastic T-cells.

Great Performance:

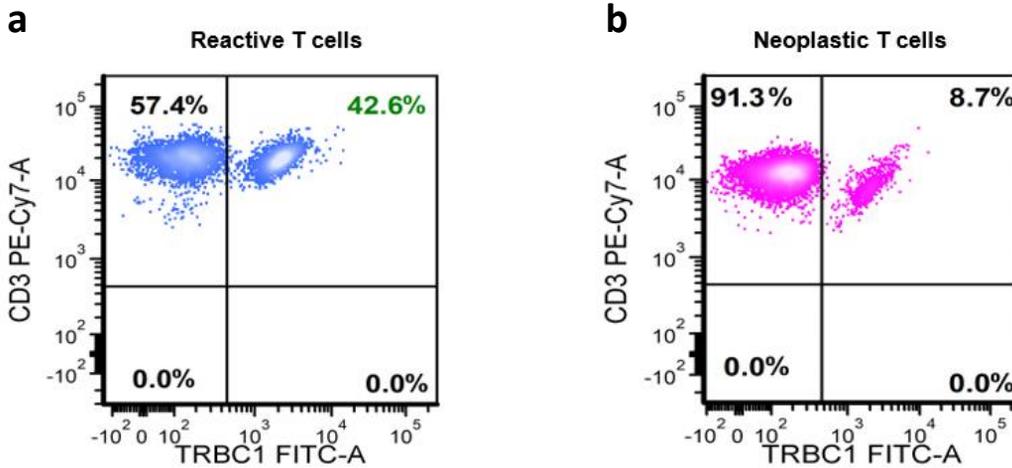


Figure 1. Comparison of clonality in reactive T cells and neoplastic T cell by TRBC1 (clones JOVI.1) FITC. **a** Reactive T cells show a polytypic pattern with 42.6% of cells positive for TRBC1 and 57.4% of cells negative for TRBC1. **b** Neoplastic T cells show a monotypic pattern with 8.7% of cells positive for TRBC1 (Note: in general, less than 15% or more than 85% of cells positive for TRBC1 is considered monotypic).

CBI related products have multi-color conjugations available!
For further information please check our website :

CD45	CD8	CD25	CD2
CD3	CD4	CD34	10×RBC Lysis buffer

PLEASE CONTACT US FOR ADDITIONAL INFORMATION:



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