Anti-TCR alpha/beta Antibody (PE)

**Product Number:** 1P-653-C100

**Overview**
- **Host Species:** Mouse
- **Clonality:** Monoclonal (R73)
- **Purity:** The protein A purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
- **Isotype:** IgG1
- **Conjugate:** PE
- **Immunogen Type:** TCR alpha/beta antibody was raised against rat T blasts and erythrocytes.

**Physical Characteristics**
- **Buffer:** Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
- **Storage:** Store antibody in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.

**Specificity**
- **Species Reactivity:** Non-Human Primates, Rat
- **Specificity:** Anti-TCR alpha/beta antibody (PE) recognizes TCR alpha/beta, the dominant subtype of T cell receptor expressed in peripheral blood.

**Target Information**
- **Background:** The antigen-specific T cell receptor (TCR) is composed of either alpha and beta subunit, or gamma and delta subunit. Majority of T cells present in the blood, lymph and secondary lymphoid organs express TCR alpha/beta heterodimers, whereas the T cells expressing TCR gamma/delta heterodimers are localized mainly in epithelial tissues and at the sites of infection. The subunits of TCR heterodimers are covalently bonded and in the endoplasmic reticulum they associate with CD3 subunits to form functional TCR-CD3 complex. Lack of expression of any of the chains is sufficient to stop cell surface expression.
- **Alternative Names:** FLJ22602; MGC117436; MGC22624; MGC23964; MGC71411; T cell antigen receptor alpha polypeptide; T cell antigen receptor beta polypeptide T cell receptor beta cluster; T cell receptor alphachain; T cell receptor alpha chain C region; T cell receptor alpha constantantibody; T cell receptor alpha locus; T cell receptor beta chain; T cell receptorbeta cluster; T cell receptor beta locus; TCR; TCRB; TRAantibody; TRAC; TRB

**Application Details**
- **Tested Applications:** WB, IHC(F), IHC(P), ICC, IP, FC, FUNC