Monoclonal Mouse Anti-Human CD3/PB, Clone UCHT1 | Code PB982
Monoclonal Mouse Anti-Human CD3/PerCP, Clone UCHT1 | Code PR702

Analyte specific reagent. Analytical and performance characteristics are not established.

Summary and explanation
Human TCR/CD3 is a complex structure on the lymphocyte surface. It consists of the TCRαβ or TCRγδ heterodimer and the associated CD3 complex. The CD3 complex is composed of six polypeptides with usually four different transmembrane CD3 chains, γ(epsilon), δ(delta), ε(epsilon), and ζ(zeta). Three different dimers, γε, δε, and ζζ, constitute the CD3 complex. The Mr of CD3ε is 20,000 (1).

The CD3 complex is crucial in transducing antigen-recognition signals into the cytoplasm of T cells and in regulating the cell surface expression of the TCR complex. Further it plays an important role in the differentiation of thymocytes. CD3 is first detectable in early thymocytes and its appearance probably represents one of the earliest signs of commitment to the T cell lineage. In cortical thymocytes, during early stages of maturation, the CD3 antigen is predominantly present in the cell cytoplasm. In medullary thymocytes, the CD3 antigen is predominantly detected on the cell surface (2).

Reagent provided
PR702 is a purified monoclonal mouse antibody conjugated with peridinin chlorophyll protein (PerCP).

PB982 is a purified monoclonal mouse antibody conjugated with Pacific Blue™ (PB).

The conjugate is provided in liquid form in buffer containing 1% bovine serum albumin (BSA) and 15 mmol/L NaN₃, pH 7.2.

Isotype: IgG1, kappa. Conjugate concentration mg/L: See label on vial.

* Pacific Blue™ dye antibody conjugates in these products are sold under license from Molecular Probes, Inc., and are covered by pending and issued patents.

Immunogen
Human infant thymocytes and lymphocytes from a patient with Sézary disease (3).

Specificity
The antibody reacts with the 20 kDa ε-chain of CD3 (4).

Precautions
1. Analyte specific reagent. Analytical and performance characteristics are not established.
2. For professional users.
3. This product contains sodium azide (NaN₃), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous, sodium azide may react with lead and copper plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent metal azide build-up in plumbing.
4. As with any product derived from biological sources, proper handling procedures should be used.
5. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.
6. Unused solution should be disposed of according to local, State and Federal regulations.

Storage
Store in the dark at 2-8 °C. Do not use after expiration date stamped on vial. If reagents are stored under any conditions other than those specified, the conditions must be verified by the user. There are no obvious signs to indicate instability of this product. If unexpected staining is observed which cannot be explained by variations in laboratory procedures and a problem with the reagent is suspected, contact Dako Technical Support.

References
### Explanation of symbols

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