**Analyte Specific Reagent.**

Analytical and performance characteristics are not established.

**SPECIFICITY**

The CD6 antigen is a single-chain type I transmembrane glycoprotein with three extracellular SRCR domains. It exists predominantly in two isoforms as 100 kDa and 130 kDa. CD6 is an extensively glycosylated molecule and differences in glycosylation patterns may occur. The CD6 molecule is modified by phosphorylation of serine, threonine and tyrosine residues during T-cell activation. CD6 have a role as a costimulatory molecule for T-cell activation and in cell adhesion. CD166 was identified as an adhesion receptor for CD6 (1).

The antibody 2H46D3B competes with the anti-CD6 monoclonal antibody T12 for the cell surface antigen and thus recognized the same epitope of the CD6 molecule (2). The T12 monoclonal antibody has been assigned to the CD6 cluster of differentiation during the 2nd International Workshop on Human Leucocyte Differentiation Antigens in 1984 (1).

The 2H46D3B monoclonal antibody recognizes CD6 antigen expressed on the surface of most mature human T cells and a subset of resting B cells and medullary thymocytes. It is found on NK cells not it is reported to be on any other cells (1, 4, 5).

**REAGENT**

IOTest CD6-FITC Conjugated Antibody

PN B16492 - 1 mL – Liquid – Clone 2H46D3B

**STATEMENTS OF WARNING**

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Specimens, samples and all material coming in contact with them should be considered potentially infectious and disposed of with proper precautions.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong light conditions yields hydrazoic acid, an extremely toxic compound. Azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide under acid conditions. Azide under acid conditions. Azide under acid conditions.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.

**STORAGE AND HANDLING CONDITIONS AND STABILITY**

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze. No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

**SELECTED RESEARCH REFERENCES**


**TRADEMARKS**

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