**SPECIFICITY**
The CD5 antigen is a single-chain transmembrane glycoprotein with a molecular weight of 67 kDa (1, 2). The CD5 molecule is expressed at the surface of mature T lymphocytes, by the majority of thymocytes and by a subpopulation of B lymphocytes (1 – 3). Its expression is not found in granulocytes, monocytes and platelets (3). The CD5 antigen is the ligand for the B-lymphocytes cell-surface protein CD72 (4). The CD5 / CD72 interactions contribute to T and B lymphocyte communication by cell-cell contact. These interactions are involved in the regulation of T and B lymphocyte activation and proliferation (5, 6).

B lymphocytes can be divided into so-called B-1 lymphocytes and B-2 (or conventional B) lymphocytes based on differential anatomical localization, functional characteristics and gene expression (7). The B-1 lymphocyte subset is divided into B-1a and B-1b subpopulations, which do or do not express the CD5 antigen respectively (7). The B-1a lymphocytes may arise from a non conventional B lineage (independent of bone marrow) (7 – 9). This CD5+ B lymphocyte subset expresses immunoglobulin with inherent low affinities for self-antigens (8, 9).

The BL1a monoclonal antibody was assigned to CD5 during the 3rd HLDA Workshop on Human Leucocyte Differentiation Antigens, held in Oxford, England, in 1986 (Code WS: 520, Section T) (1, 2).

**REAGENT PREPARATION**
No preparation is necessary. This reagent is used directly from the vial. Bring reagent to 18 – 25°C prior to use.

**SELECTED RESEARCH REFERENCES**

**PRODUCT AVAILABILITY**
IOTest CD5-ECD Conjugated Antibody
PN A33096 – Liquid 1 mL – 10 µL / test*. – Clone BL1a

**ANALYTE SPECIFIC REAGENT.**
Analytical and performance characteristics are not established.
For additional information in the USA, call 800-526-7694. Outside the USA, contact your local Beckman Coulter representative.

www.beckmancoulter.com

TRADEMARKS
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*10 µL is the quantity of product sufficient to stain 5 x 10^5 cells in a standard immunofluorescence assay