

## 30-1096BT: Anti-CD7 Monoclonal Antibody (Clone:124-1D1) Biotin Conjugated

|                                |               |
|--------------------------------|---------------|
| <b>Clonality :</b>             | Monoclonal    |
| <b>Clone Name :</b>            | 124-1D1       |
| <b>Application :</b>           | FACS          |
| <b>Reactivity :</b>            | Human         |
| <b>Conjugate :</b>             | Biotin        |
| <b>Gene :</b>                  | CD7           |
| <b>Gene ID :</b>               | 924           |
| <b>Uniprot ID :</b>            | P09564        |
| <b>Format :</b>                | Purified      |
| <b>Alternative Name :</b>      | CD7           |
| <b>Isotype :</b>               | Mouse IgG1    |
| <b>Immunogen Information :</b> | not available |

### Description

CD7, also known as gp40, is a member of the immunoglobulin superfamily found on T cells, NK cells, thymocytes, hematopoietic progenitors, and monocytes (weakly). CD7 is also expressed on acute lymphocytic leukemia (ALL). CD7 crosslinking induces a calcium flux in T lymphocytes, presumably as a result of cytoplasmic domain association with PI3-kinase. CD7 co-stimulation can induce cytokine secretion and modulate cellular adhesion. A ligand of CD7, epithelial cell secreted protein K12, is produced in thymus to regulate thymocyte signaling and cytokine release. In lung microvascular endothelial cells CD7 serves as an IgM Fc receptor. Expression of CD7 is an important marker used in leukemia diagnostics.

### Product Info

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 0.1 mg  |
| <b>Purification :</b>      | Purified by protein-A affinity chromatography |
| <b>Storage condition :</b> | Store at 2-8°C. Do not freeze.                |

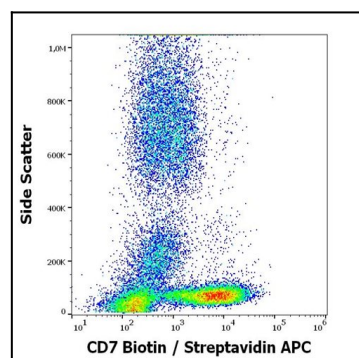


Figure 1: Flow cytometry of PBMC using anti- h CD7 purified antibody

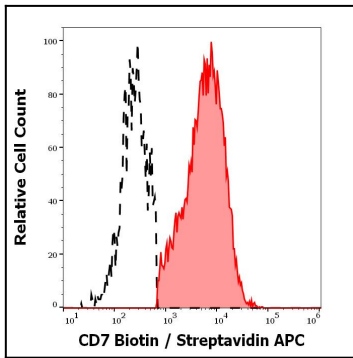


Figure 2: Separation of human CD7 positive lymphocytes (red-filled) from negative CD7 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD7 (124-1D1) Biotin antibody