

### 30-2641: Anti-Human CD164 PE (Clone : 67D2)

|                                |                                                 |
|--------------------------------|-------------------------------------------------|
| <b>Clonality :</b>             | Monoclonal                                      |
| <b>Clone Name :</b>            | 67D2                                            |
| <b>Application :</b>           | FACS                                            |
| <b>Reactivity :</b>            | Human                                           |
| <b>Conjugate :</b>             | PE                                              |
| <b>Gene :</b>                  | CD164                                           |
| <b>Gene ID :</b>               | 8763                                            |
| <b>Alternative Name :</b>      | DFNA66, MUC-24, MGC-24, endolyn, CD164 molecule |
| <b>Isotype :</b>               | Mouse IgG1                                      |
| <b>Immunogen Information :</b> | Breast tumor cell line T-47D                    |

#### Description

CD164, also known as endolyn, is a type I transmembrane protein with heavily glycosylated extracellular part containing sialic acid and glycosaminoglycan residues. CD164 plays both adhesive and antiadhesive role and serves as a potent negative regulator for CD34+ CD38- hematopoietic progenitor cell proliferation. It has also been reported to be involved in myogenic differentiation and cancer metastasis. The adhesive and negative regulatory functions seem to depend on different posttranslational modifications of CD164 protein.

**Specificity :** The mouse monoclonal antibody 67D2 recognizes an extracellular class III epitope (not sensitive to sialidase, N-glycanase, O-glycosidase, and O-sialoglycoprotease) of CD164, a sialomucin expressed in hematopoietic myeloid and erythroid progenitors, activated basophils, and in various carcinomas and leukemic cells.

#### Product Info

|                            |                                                                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Amount :</b>            | 100 tests                                                                                                                                           |
| <b>Purification :</b>      | The purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography. |
| <b>Content :</b>           | Formulation : Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide                                                    |
| <b>Storage condition :</b> | Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.                                                                       |

#### Application Note

**Flow cytometry:** The reagent is designed for analysis of human blood cells using 10  $\mu$ l reagent / 100  $\mu$ l of whole blood or  $10^6$  cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

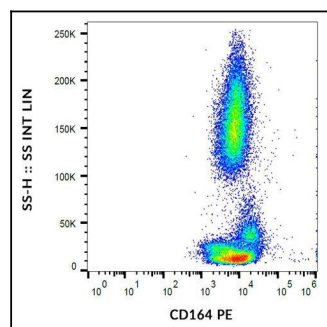


Figure 1 : Flow cytometry analysis (surface staining) of human peripheral blood cells using anti-CD164 (67D2) PE.