

### 30-2521: Anti-HLA-E PE (Clone : 3D12)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	3D12
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Conjugate :</b>	PE
<b>Gene :</b>	HLA-E
<b>Gene ID :</b>	3133
<b>Alternative Name :</b>	HLA class I histocompatibility antigen, alpha chain E, MHC class I antigen E, major histocompatibility complex, class I, E
<b>Isotype :</b>	Mouse IgG1

#### Description

HLA-E (Human Leukocyte Antigen E) is a non-classical MHC I antigen, which is important for dialogue with NK cells and their regulation through interaction with CD94/NKG2 receptor. Like other MHC I molecules, transmembrane HLA-E molecule (45 kDa) associates with beta2 microglobulin. Unlike HLA-G, expression of HLA-E molecules is not so restricted, but it has been detected at least at mRNA level in virtually all cells and tissues examined. In peripheral blood, HLA-E protein is expressed at least in all mononuclear cells, but in different quantity (B cells and monocytes more than T cells and NK cells).

**Specificity :** The mouse monoclonal antibody 3D12 (also known as 3D12HLA-E) recognizes native extracellular part of HLA-E, an ubiquitously expressed non-classical MHC class I molecule, as well as free HLA-E.

#### Product Info

<b>Amount :</b>	0.1 mg
<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>	0.1 mg/ml 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.

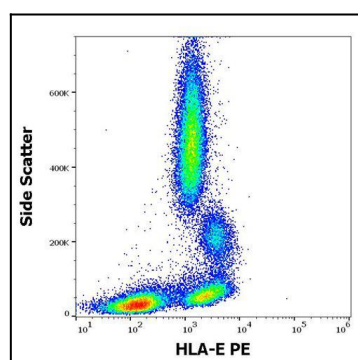


Figure 1 : Flow cytometry surface staining pattern of human peripheral blood stained using anti-human HLA-E (3D12) PE antibody (concentration in sample 2 µg/ml).

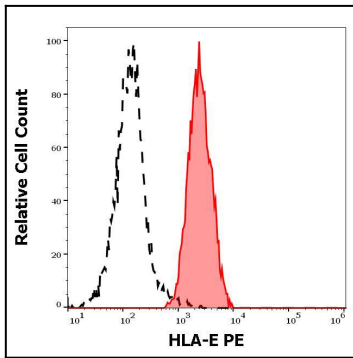


Figure 2 : Separation of human lymphocytes (red-filled) from blood debris (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human HLA-E (3D12) PE antibody (concentration in sample 2 µg/ml).