

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

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

Amount :	0.1 mg
Purification :	The purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Content :	0.1 mg/ml Formulation : Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
Storage condition :	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

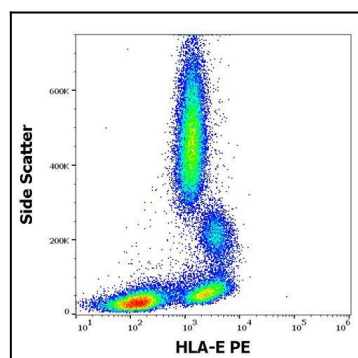


Figure 1 : Flow cytometry surface staining pattern of human peripheral blood stained using anti-human HLA-E (3D12) PE antibody (concentration in sample 2 µg/ml).

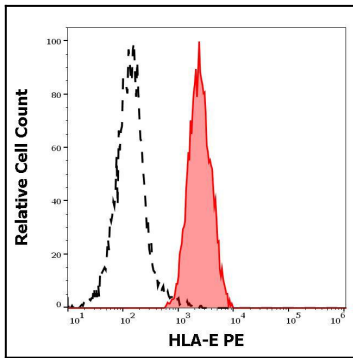


Figure 2 : Separation of human lymphocytes (red-filled) from blood debris (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human HLA-E (3D12) PE antibody (concentration in sample 2 $\mu\text{g/ml}$).