

Datasheet for ABIN7013919  
**anti-HLA-F antibody (PE)**

## 4 Images

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## Overview

Quantity:	0.1 mg
Target:	HLA-F (HLAF)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HLA-F antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

## Product Details

Immunogen:	Inclusion body-derived HLA-F heavy chain
Clone:	3D11
Isotype:	IgG1
Specificity:	The mouse monoclonal antibody 3D11 recognizes an extracellular epitope of HLA-F, a 42 kDa type I transmembrane protein expressed on B cells, NK cells, monocytes, and T cells, but mainly in the endoplasmic reticulum and Golgi apparatus, only a small amount on the cell surface, where, however, it can be expressed after cell activation.
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

## Target Details

Target:	HLA-F (HLAF)
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## Target Details

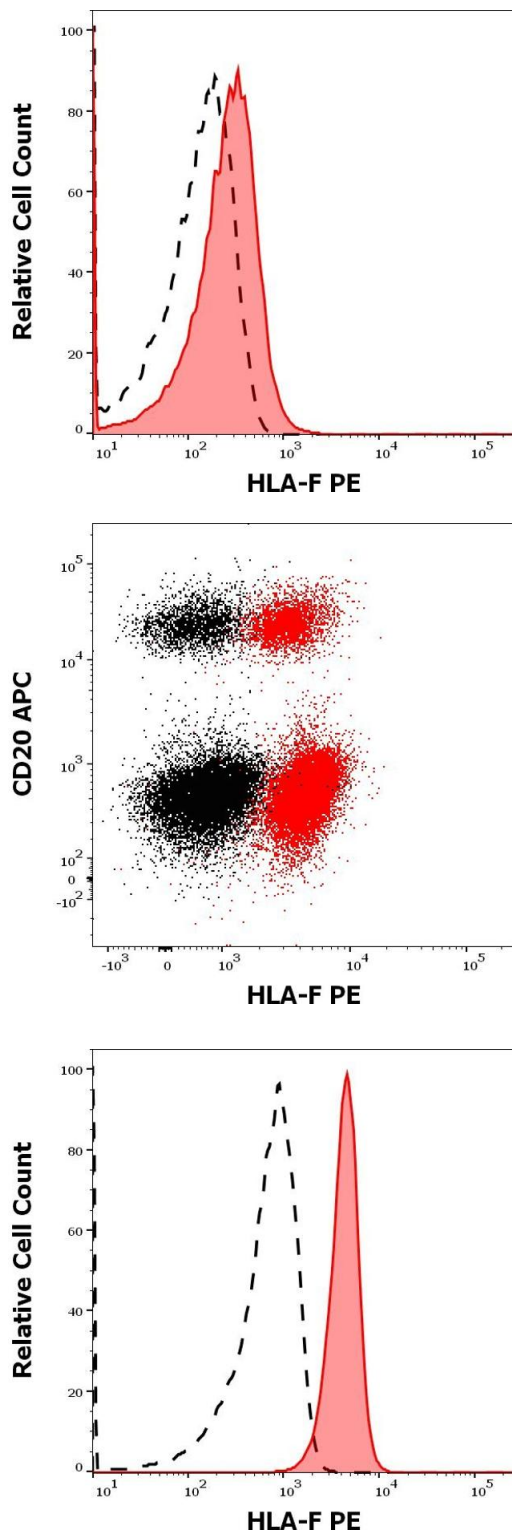
Alternative Name:	HLA-F ( <a href="#">HLAF Products</a> )
Background:	Major histocompatibility complex, class I, F,HLA-F, an MHC class I molecule, is a type I transmembrane protein (heavy chain), which forms heterodimers with beta-2 microglobulin (light chain) and binds to KIR3DS1, KIR3DS4, KIR3DL2, ILT2, ILT4, and TAP. Unlike most other HLA proteins, HLA-F is mainly localized in the endoplasmic reticulum and Golgi apparatus, with only a small amount present on the cell surface in some cell types, surface expression can be induced by cell activation. It is thought to bind a restricted subset of peptides for immune presentation. Multiple transcript variants encoding different isoforms have been found for HLA-F gene. These variants lack a coding exon found in transcripts from other HLA paralogues due to an altered splice acceptor site, resulting in a shorter cytoplasmic domain.,CDA12
Gene ID:	3134
UniProt:	<a href="#">P30511</a>
Pathways:	<a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a>

## Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-5 µg/mL, extracellular and intracellular staining.
Restrictions:	For Research Use only

## Handling

Concentration:	0.1 mg/mL
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.



### Flow Cytometry

**Image 1.** Separation of lymphocytes stained using anti-HLA-F (3D11) PE antibody (concentration in sample 5  $\mu\text{g/mL}$ , red-filled) from lymphocytes stained using mouse IgG1 isotype control (MOPC-21) PE antibody (concentration in sample 5  $\mu\text{g/mL}$ , same as anti-HLA-F PE concentration, black-dashed) in flow cytometry analysis (surface staining) of human stimulated (PMA + Ionomycin) whole blood cells.

### Flow Cytometry

**Image 2.** Flow cytometry multicolor intracellular staining pattern of human lymphocytes stained using anti-human CD20 (2H7) PE antibody (10  $\mu\text{L}$  reagent / 100  $\mu\text{L}$  of peripheral whole blood) and anti-HLA-F (3D11) PE antibody (concentration in sample 5  $\mu\text{g/mL}$ , red) or mouse IgG1 isotype control (MOPC-21) PE antibody (concentration in sample 5  $\mu\text{g/mL}$ , same as anti-HLA-F PE concentration, black).

### Flow Cytometry

**Image 3.** Separation of lymphocytes stained using anti-HLA-F (3D11) PE antibody (concentration in sample 5  $\mu\text{g/mL}$ , red-filled) from lymphocytes stained using mouse IgG1 isotype control (MOPC-21) PE antibody (concentration in sample 5  $\mu\text{g/mL}$ , same as anti-HLA-F PE concentration, black-dashed) in flow cytometry analysis (intracellular staining) of human stimulated (PMA + Ionomycin) whole blood cells.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7013919.