

Anti-HLA-F Purified Monoclonal Antibody

Catalog Number: M04798

About HLA-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.

Overview

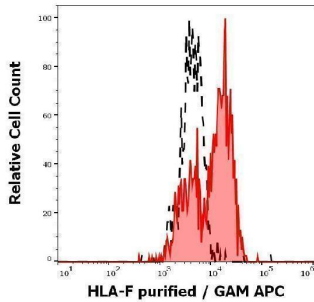
Product Name	Anti-HLA-F Purified Monoclonal Antibody
Reactive Species	Human
Description	Boster Bio Anti-HLA-F Purified Monoclonal Antibody (Catalog# M04798). Tested in Flow Cytometry, WB application(s). This antibody reacts with Human.
Application	Flow Cytometry, WB
Clonality	Monoclonal 3D11
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P30511

Technical Details

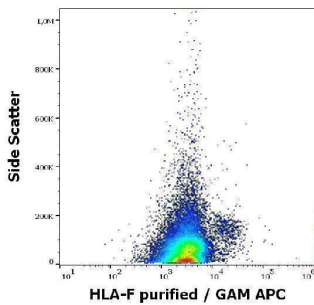
Immunogen	Inclusion body-derived HLA-F heavy chain. The mouse monoclonal antibody 3D11 recognizes an extracellular epitope of HLA-F, a 42 kDa type I transmembrane protein expressed on B cells, NK cells, monocytes, and T cells, but mainly in the endoplasmic reticulum and Golgi apparatus, only a small amount on the cell surface, where, however, it can be expressed after cell activation.
Predicted Reactive Species	Primate
Cross Reactivity	This antibody does not cross-react with Thy-1.1 alloantigen.
Isotype	Mouse IgG1
Form	Liquid
Concentration	1 mg/ml

Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	Flow cytometry: 1-5 ug/ml; extracellular and intracellular staining.

Anti-HLA-F Purified Monoclonal Antibody (M04798) Images



Separation of human activated lymphocytes stained using anti-human HLA-F (3D11) purified antibody (concentration in sample 5 µg/ml, GAM APC, red-filled) from human activated lymphocytes unstained by primary antibody (GAM APC, black-dashed) in flow cytometry analysis (surface staining) of human PMA + Ionomycin stimulated peripheral blood mononuclear cells.



Flow cytometry surface staining pattern of human PMA + Ionomycin stimulated peripheral blood mononuclear cells stained using anti-human HLA-F (3D11) purified antibody (concentration in sample 5 µg/ml, GAM APC).

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Anti-HLA-F Purified Monoclonal Antibody

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