Human HLA-E Alexa Fluor® 700-conjugated Antibody

Monoclonal Mouse IgG_{2A} Clone # 1079755

Catalog Number: FAB11547N

100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects a synthetic peptide around aa 80 in Direct ELISA
Source	Monoclonal Mouse IgG_{2A} Clone # 1079755
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	HLA-E containing synthetic peptide Accession # P13747
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

Immunohistochemistry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

HLA-E is a class I histocompatibility antigen involved in immune self-nonself discrimination. HLA-E classically binds epitopes from HLA-A, HLA-B, HLA-C and HLA-G signal peptides and serves as a ligand for CD94/NKG2A and CD94/NKG2C receptors on NK and t-cell subsets. HLA-E down-regulates NK cell cytolytic activity when presented on the cell surface. It can also restrict non-canonical CD8+ T cells during natural infection with pathogens. HLA-E protein expression in normal human nonlymphoid organs is restricted to endothelial cells. It is also basally expressed by B and T-lymphocytes, NK cells and macrophages. TNF-alpha, IL-1beta and IFN-gamma up-regulated cell-surface expression of HLA-EE.

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