SONY

Product Data Sheet

PE/Cy7 anti-human HLA-E

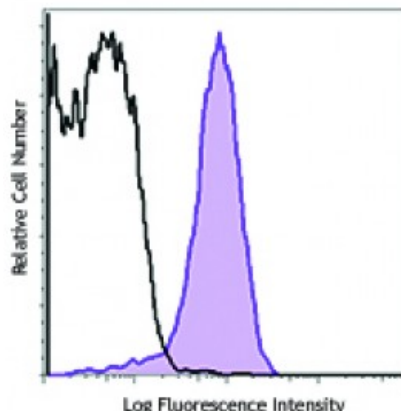|	
Catalog # / Size:	2313040 / 100 tests 2313035 / 25 tests
Clone:	3D12
Isotype:	Mouse IgG1, κ
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Cy7 under optimal conditions. The solution is free of unconjugated PE/Cy7 and unconjugated antibody.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
Concentration:	Lot-specific

Human peripheral blood lymphocytes were stained with HLA-E (clone 3D12) PE/Cy7 (filled histogram) or mouse IgG1, κ PE/Cy7 isotype control (open histogram).

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
Application References:	1. Lee N, *et al.* 1998. *Proc. Natl. Acad. Sci. USA.* 95:5199. 2. Wooden SL, *et al.* 2005. *J. Immunol.* 175:1383. 3. Monaco EL, *et al.* 2008. *J. Immunol.* 181:5442. 4. Corrah TW, *et al.* 2011. *J. Virol.* 85:3367. PubMed 5. Steindor M, *et al.* 2015. *PLoS One.* 10:19737. PubMed
Description:	HLA-E is a non-classical MHC class I (MHC-Ib) molecule. It is characterized by limited polymorphism and ubiquitous expression. HLA-E, as other MHC-I molecules, is heterodimerized with β2-microglobulin. HLA-E interacts with CD94/NKG2 receptor to regulate NK cell cytolysis activities.
Antigen References:	1. Sullivan LC, *et al.* 2008. *Tissue Antigen.* 72:415. 2. Koller BH, *et al.* 1988. *J. Immunol.* 141:897.