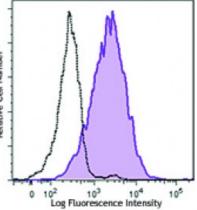
Product Data Sheet

PE/Cy7 anti-human HLA-G

Catalog # / Size:	2279555 / 25 tests 2279560 / 100 tests	1
Clone:	87G	1
Isotype:	Mouse IgG2a, к	lage 1
Immunogen:	HLA-G transfected cells	Relative Cell Nur
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).	Human d (JEG-3) v
Concentration:	Lot-specific	(clone 8 histogra



Human cytotrophoblastic cell line (JEG-3) was stained with HLA-G (clone 87G) PE/Cy7 (filled histogram) or mouse IgG2a, 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 Notes:	87G mAb reacts with isoforms of HLA-G1 and -G5. Additional reported applications (for the relevant formats) include: restoring HLA-G mediated suppression of allo-T cell proliferation and immunohistochemical staining of frozen tissue sections. Clone 87G is reported not to bind HLA-G in aldehyde fixed samples. ⁴
Application References:	 Odum N, <i>et al.</i> 1991. <i>Eur. J. Immunol.</i> 21:2121. Lila N, <i>et al.</i> 2001. <i>P. Natl. Acad. Sci. USA</i> 98:12150. Lila N, <i>et al.</i> 2002. <i>Circulation.</i> 105:1949. Blaschitz A, <i>et al.</i> 2000. <i>Hum. Immunol.</i> 61:1074. Balsamo M, <i>et al.</i> 2012. <i>Eur J. Immunol.</i> 42:1833. <u>PubMed</u>
Description:	HLA-G is a nonclassical MHC class I (MHC-Ib) molecule structurally related to MHC class Ia (HLA-A,B, C). There are seven isoforms of this molecule, including membrane bound HLA-G1, -G2, -G3 and -G4 and soluble HLA-G5, -G6, and -G7. HLA-G is primarily expressed on trophoblast cells. Its expression is also found on thymic epithelial cells, cytokine-activated moncytes, macrophages/dendritic cells during viral infection, and in various tumors. HLA-G exerts its inhibitory functions to regulate immune tolerance via interaction with inhibitory receptors ILT2(CD85j), ILT4(CD85d), and KIR2DL4(CD158d), which is expressed on NK cells, T cells, monocytes, dendritic cells, and B cells. HLA-G is also able to bind CD8 α/α ,

which may mediate positive and/or negative selection in thymus.

Antigen 1. Hunt JS, et al. 2005. FASEB J. 19:681.

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