

# HLA-G Monoclonal Antibody (87G), APC, eBioscience™

## Product Details

Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	87G
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.2% BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10671139

## Applications

## Tested Dilution

## Publications

Flow Cytometry (Flow)	5 µL (0.125 µg)/test	2 Publications
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## Product Specific Information

Description: The monoclonal antibody 87G recognizes human HLA-G, a member of the Human Leukocyte Antigen family but as part of the nonclassical MHC type involved in inhibiting immune responses. HLA-G has seven reported isoforms. The antibody 87G recognizes both HLA-G1 and the soluble HLA-G5. Expression of HLA-G is found primarily in fetal trophoblast cells as they invade the maternal decidua thereby protecting the fetus from the maternal immune system. Like the highly mitotic trophoblast, abundant HLA-G protein expression has been identified in some tumors, including melanoma, breast carcinoma and renal carcinoma as well as CLL, AML and B-CLL. Some expression has also been found in pancreatic islets, erythroid and endothelial progenitors and the adult thymic medulla. HLA-G+ CD4 or CD8 cells have been identified in normal human peripheral blood and are thought to act as regulatory cells in that they are hypoproliferative with a unique cytokine profile differing from Tregs. The receptors for HLA-G are CD85j/ILT2, CD85d/ILT4, and CD158. Recent studies have shown a role for HLA-G in tolerance and maintenance of transplanted organs.

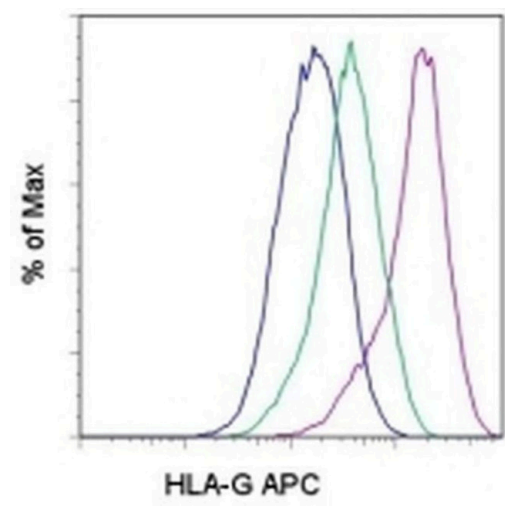
Applications Reported: This 87G antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 87G antibody has been pre-titrated and tested by flow cytometric analysis of stimulated U937 cells. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

Excitation: 633-647 nm; Emission: 660 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For HLA-G Monoclonal Antibody (87G), APC, eBioscience™



**HLA-G Antibody (17-9957-42) in Flow**  
Staining of the U937 cell line stimulated with GM-CSF and IFN gamma with Mouse IgG2a kappa Isotype Control APC (Product # 17-4724-81) (blue histogram) or Anti-Human HLA-G APC (purple histogram). Green histogram represents staining of unstimulated cells with Anti-Human HLA-G APC. Total viable cells were used for analysis.

[View more figures on thermofisher.cn](#)

2 References

Flow Cytometry (2)

Cell proliferation	Year 2020
<b>Placental endovascular extravillous trophoblasts (enEVTs) educate maternal T-cell differentiation along the maternal-placental circulation.</b>	
"Published figure using HLA-G monoclonal antibody (Product # 17-9957-42) in Flow Cytometry"	
Authors: Ma Y, Yang Q, Fan M, Zhang L, Gu Y, Jia W, Li Z, Wang F, Li YX, Wang J, Li R, Shao X, Wang YL	
Stem cells and development	Year 2011
<b>L3MBTL1 deficiency directs the differentiation of human embryonic stem cells toward trophectoderm.</b>	Species Human
"Published figure using HLA-G monoclonal antibody (Product # 17-9957-42) in Flow Cytometry"	
Authors: Hoya-Arias R, Tomishima M, Perna F, Voza F, Nimer SD	

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