PE/Dazzle[™] 594 anti-human HLA-G

Catalog # / Size:	2279595 / 25 tests	
Clone:	87G	13 🔥
lsotype:	Mouse IgG2a, к	
Immunogen:	HLA-G transfected cells	
Reactivity:	Human, Non-human primate, Other	Relative Cell Number
Preparation:	The antibody was purified by affinity chromatography and conjugated with PE/Dazzleâ,¢ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzleâ,¢ 594 and unconjugated antibody.	-10 ³ 0 10 ³ 10 ⁴ 10 ⁵ Log Fluorescence Intensity
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).	Human cytotrophoblastic cell line (JEG-3) was stained with HLA-G (clone 87G) PE/Dazzle™ 594 (filled histogram) or Mouse IgG2a PE/Dazzle™ 594 isotype control (open histogram).
Concentration:	Lot-specific	

Applications:

Applications: Flow Cytometry Recommended Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the Usage: suggested use of this reagent is $5 \,\mu$ l per million cells or $5 \,\mu$ l per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. * PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm. Application 87G mAb reacts with isoforms of HLA-G1 and -G5. Additional reported Notes: 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 1. Hunt JS, et al. 2005. FASEB J. 19:681. Application References: 2. Carosella ED, et al. 2008. Blood 111:4862. **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.

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Antigen	1. Hunt JS, <i>et al.</i> 2005. <i>FASEB J.</i> 19:681.
References:	2. Carosella ED, et al. 2008. Blood 111:4862.