

## Product datasheet for **TA320347**

### HLAG (HLA-G) Mouse Monoclonal Antibody [Clone ID: 87G]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	87G
Applications:	FC
Recommended Dilution:	Flow, IHC
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Formulation:	Aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Concentration:	lot specific
Purification:	Affinity purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	major histocompatibility complex, class I, G
Database Link:	<a href="#">NP_002118</a> <a href="#">Entrez Gene 3135 Human</a> <a href="#">P17693</a>



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**Background:**

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<sup>+</sup> 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.

**Synonyms:**

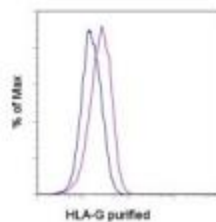
MHC-G

**Protein Families:**

Transmembrane

**Protein Pathways:**

Allograft rejection, Antigen processing and presentation, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Endocytosis, Graft-versus-host disease, Natural killer cell mediated cytotoxicity, Type I diabetes mellitus, Viral myocarditis

**Product images:**

Staining of stimulated U937 cells with 0.25 ug of Mouse IgG2a K Isotype Control Purified (blue) or 0.25 ug of Anti-Human HLA-G Purified (purple) followed by F(ab')<sub>2</sub> Anti-Mouse IgG PE. Total viable cells were used for analysis.