

## Product datasheet for **AM03104PU-N**

### HLA-G (HLA-G) Mouse Monoclonal Antibody [Clone ID: G233]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	G233
Applications:	ELISA, FC, IHC, IP
Recommended Dilution:	Flow Cytometry: Extracellular and intracellular staining; recommended dilution: 1-4 µg/ml. Immunoprecipitation. ELISA.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Murine L cells transfected with both human beta2-microglobulin and HLA-G
Specificity:	The antibody G233 recognizes several isoforms of HLA-G expressed in all populations of extravillous trophoblast (cell columns, interstitial trophoblast, endovascular trophoblast, placental bed giant cells). HLA-G belongs to the nonclassical MHC Class I molecules (MHC Class Ib). The antibody G233 has been found not to cross-react with any other MHC Class I antigens (HLA-A, -B, -C, -E, -F).
Formulation:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 State: Aff - Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein A affinity chromatography (> 95% by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	major histocompatibility complex, class I, G
Database Link:	<a href="#">Entrez Gene 3135 Human P17693</a>



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**Background:**

HLA G belongs to the HLA class I heavy chain paralogues. It is a heterodimer consisting of a heavy chain (with a1, a2, a3 domains) and a light chain (beta 2 microglobulin). Alternate splicing provides both soluble and membrane bound forms of HLA G, with two soluble isoforms and four membrane bound isoforms. HLA G may be part of the fetal protection system and is expressed on fetal derived placental cells.

**Synonyms:**

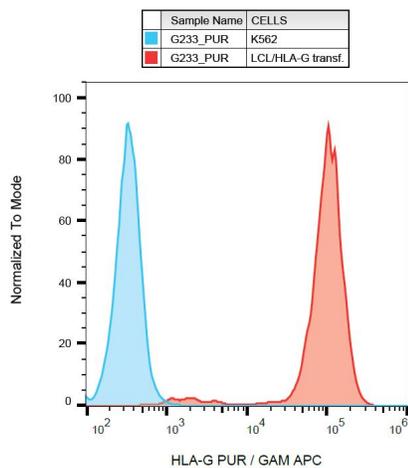
HLA-6.0, HLAG, MHC class I antigen G

**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:**


Surface staining of HLA-G in HLA-G transfectants using anti-HLA-G (G233) purified / GAM-APC.