



1F-438-C100

## Monoclonal Antibody to HLA-G Fluorescein (FITC) conjugated (0.1 mg)

<b>Clone:</b>	01G
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The antibody 01G recognizes membrane-bound form of HLA-G (full-length HLA-G1), but not soluble forms. HLA-G belongs to the MHC Class I molecules (MHC Class Ib; nonclassical) and it is expressed on the surface of trophoblast cells.
<b>Regulatory Status:</b>	RUO
<b>Immunogen:</b>	HLA-B27 transgenic mice were immunized with H-2 identical murine cells transfected with and expressing genes encoding HLA-G and human beta2-microglobulin.
<b>Species Reactivity:</b>	Human
<b>Negative Species:</b>	Mouse, Rat
<b>Preparation:</b>	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC.
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label.
<b>Usage:</b>	The reagent is designed for Flow Cytometry analysis of cells expressing HLA-G molecule on the cell surface. Suggested working dilution is 1:200. Indicated dilution is recommended starting point for use of this product. Working concentrations should be determined by the investigator.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label

**For laboratory research only, not for drug, diagnostic or other use.**



**Antibodies**

- References:**
- \*Ishitani A. et al., Protein Expression and Peptide Binding Suggest Unique and Interacting Functional Roles for HLA-E, F and G in Maternal-Placental Immune Recognitions. *The Journal of Immunology* 171, 1376 (2003).
  - \*Real LM, Cabrera T, Collado A, Jimenez P, Garcia A, Ruiz-Cabello F, Garrido F: Expression of HLA G in human tumors is not a frequent event. *Int J Cancer*. 1999 May 17;81(4):512-8.
  - \*Real LM, Cabrera T, Canton J, Oliva R, Ruiz-Cabello F, Garrido F: Looking for HLA-G expression in human tumours. *J Reprod Immunol*. 1999 Jul;43(2):263-73.
  - \*Polakova K, Russ G: Expression of the non-classical HLA-G antigen in tumor cell lines is extremely restricted. *Neoplasma*. 2000;47(6):342-8.
  - \*Polakova K, Bandzuchova E, Hofmeister V, Weiss EH, Hutter H, Russ G: Binding analysis of HLA-G specific antibodies to hematopoietic cells isolated from leukemia patients. *Neoplasma*. 2003;50(5):331-8.
  - \*Polakova K, Krcova M, Kuba D, Russ G: Analysis of HLA-G expression in malignant hematopoietic cells from leukemia patients. *Leuk Res*. 2003 Jul;27(7):643-8.
  - \*Wiendl H, Feger U, Mittelbronn M, Jack C, Schreiner B, Stadelmann C, Antel J, Brueck W, Meyermann R, Bar-Or A, Kieseier BC, Weller M: Expression of the immune-tolerogenic major histocompatibility molecule HLA-G in multiple sclerosis: implications for CNS immunity. *Brain*. 2005 Nov;128(Pt 11):2689-2704.

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