

## Datasheet

### HLA-G monoclonal antibody, clone 01G (FITC)

**Catalog Number:** MAB5096

**Regulatory Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against HLA-G.

**Clone Name:** 01G

**Immunogen:** HLA-B27 transgenic mice were immunized with H-2 identical murine cells transfected with and expressing genes encoding HLA-G and human beta2-microglobulin.

**Host:** Mouse

**Reactivity:** Human

**Applications:** Flow Cyt

(See our web site product page for detailed applications information)

**Protocols:** See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Specificity:** This antibody recognizes membrane-bound form of HLA-G (full-length HLA-G1), but not soluble forms.

**Form:** Liquid

**Conjugation:** FITC

**Concentration:** 1 mg/mL

**Isotype:** IgG1

**Recommend Usage:** Flow Cytometry (1:200)

The optimal working dilution should be determined by the end user.

**Storage Buffer:** In PBS, pH 7.4 (0.09% sodium azide)

**Storage Instruction:** Store in the dark at 4°C. Do not freeze.

Avoid prolonged exposure to light.

Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 3135

**Gene Symbol:** HLA-G

**Gene Alias:** MHC-G

**Gene Summary:** HLA-G belongs to the HLA class I heavy chain paralogues. This class I molecule is a heterodimer consisting of a heavy chain and a light chain (beta-2 microglobulin). The heavy chain is anchored in the membrane. HLA-G is expressed on fetal derived placental cells. The heavy chain is approximately 45 kDa and its gene contains 8 exons. Exon one encodes the leader peptide, exons 2 and 3 encode the alpha1 and alpha2 domain, which both bind the peptide, exon 4 encodes the alpha3 domain, exon 5 encodes the transmembrane region, and exon 6 encodes the cytoplasmic tail. [provided by RefSeq]

#### References:

1. Analysis of HLA-G expression in malignant hematopoietic cells from leukemia patients. Polakova K, Krcova M, Kuba D, Russ G. Leuk Res. 2003 Jul;27(7):643-8.
2. Binding analysis of HLA-G specific antibodies to hematopoietic cells isolated from leukemia patients. Polakova K, Bandzuchova E, Hofmeister V, Weiss EH, Hutter H, Russ G. Neoplasma. 2003;50(5):331-8.
3. Expression of the non-classical HLA-G antigen in tumor cell lines is extremely restricted. Polakova K, Russ G. Neoplasma. 2000;47(6):342-8.