

Datasheet

HLA-G monoclonal antibody, clone 87G (FITC)

Catalog Number: MAB5093

Regulatory Status: For research use only (RUO)

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

Clone Name: 87G

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 both membrane-bound and soluble forms of HLA-G (HLA-G1 and HLA-G5). This antibody blocks interaction of HLA-G with inhibitory receptors.

Form: Liquid

Conjugation: FITC

Concentration: 1 mg/mL

Isotype: IgG2a

Recommend Usage: Flow Cytometry (1:100)

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. Immune regulation by pretenders: cell-to-cell transfers of HLA-G make effector T cells act as regulatory cells. LeMaout J, Caumartin J, Daouya M, Favier B, Le Rond S, Gonzalez A, Carosella ED. *Blood*. 2007 Mar 1;109(5):2040-8. Epub 2006 Oct 31.
2. The surface expression of HLA-F on decidual trophoblasts increases from mid to term gestation. Shobu T, Sageshima N, Tokui H, Omura M, Saito K, Nagatsuka Y, Nakanishi M, Hayashi Y, Hatake K, Ishitani A. *J Reprod Immunol*. 2006 Dec;72(1-2):18-32. Epub 2006 Jun 27.
3. HLA-G proteins in cancer: do they provide tumor cells with an escape mechanism? Rouas-Freiss N, Moreau P, Ferrone S, Carosella ED. *Cancer Res*. 2005 Nov 15;65(22):10139-44.