

ARG10094
anti-HLA G antibody [MEM-G/1] (Biotin)Package: 50 µg
Store at: 4°C

Summary

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|---------------------|---|
| Product Description | Biotin-conjugated Mouse Monoclonal antibody [MEM-G/1] recognizes HLA G |
| Tested Reactivity | Hu |
| Tested Application | WB |
| Specificity | The clone MEM-G/1 reacts with denaturated HLA-G heavy chain. HLA-G belongs to the MHC Class I molecules (MHC Class Ib; nonclassical) and it is expressed on the surface of trophoblast cells. |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | MEM-G/1 |
| Isotype | IgG1 |
| Target Name | HLA G |
| Species | Human |
| Immunogen | Denatured bacterially expressed recombinant human HLA-G heavy chain. |
| Conjugation | Biotin |
| Alternate Names | HLA G antigen; MHC class I antigen G; HLA class I histocompatibility antigen, alpha chain G; MHC-G |

Application Instructions

| Application table | Application | Dilution |
|-------------------|-------------|----------|
| | WB | 1:500 |

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

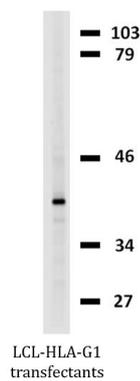
Properties

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|---------------------|--|
| Form | Liquid |
| Purification Note | The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin. |
| Buffer | PBS (pH 7.4) and 15 mM Sodium azide |
| Preservative | 15 mM Sodium azide |
| Concentration | 1 mg/ml |
| Storage instruction | Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

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|----------------|--|
| Database links | GeneID: 3135 Human Swiss-port # P17693 Human |
| Gene Symbol | HLA-G |
| Gene Full Name | major histocompatibility complex, class I, G |
| Background | 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, Jul 2008] |
| Function | Involved in the presentation of foreign antigens to the immune system. Plays a role in maternal tolerance of the fetus by mediating protection from the deleterious effects of natural killer cells, cytotoxic T-lymphocytes, macrophages and mononuclear cells. [UniProt] |
| Research Area | Immune System antibody |
| Calculated Mw | 38 kDa |

Images



ARG10094 anti-HLA G antibody [MEM-G/1] (Biotin) WB image

Western blot: LCL-HLA-G1 transfectants stained with ARG10094 anti-HLA G antibody [MEM-G/1] (Biotin), in reducing conditions.