

ARG10092 anti-HLA G antibody [MEM-G/9] (APC)

Package: 50 µg
Store at: 4°C

Summary

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| Product Description | APC-conjugated Mouse Monoclonal antibody [MEM-G/9] recognizes HLA G |
| Tested Reactivity | Hu |
| Species Does Not React With | Ms |
| Tested Application | FACS |
| Specificity | The clone MEM-G/9 reacts with native form of human HLA-G1 on the cell surface as well as with soluble HLA-G5 isoform in its beta2-microglobulin associated form. Reactivity with HLA-G3 was also reported. MEM-G/9 is standard reagent thoroughly validated during 3rd International Conference on HLA-G (Paris, 2003). |
| Host | Mouse |
| Clonality | Monoclonal |
| Clone | MEM-G/9 |
| Isotype | IgG1 |
| Target Name | HLA G |
| Species | Human |
| Immunogen | Recombinant human HLA-G refolded with beta2-microglobulin and peptide. |
| Conjugation | APC |
| Alternate Names | HLA G antigen; MHC class I antigen G; HLA class I histocompatibility antigen, alpha chain G; MHC-G |

Application Instructions

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| Application table | Application | Dilution |
| | FACS | 1 - 5 µg/ml |
| 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 cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography. |
| Buffer | PBS, 15 mM Sodium azide and 0.2% (w/v) high-grade protease free BSA |
| Preservative | 15 mM Sodium azide |
| Stabilizer | 0.2% (w/v) high-grade protease free BSA |
| Concentration | 0.1 mg/ml |

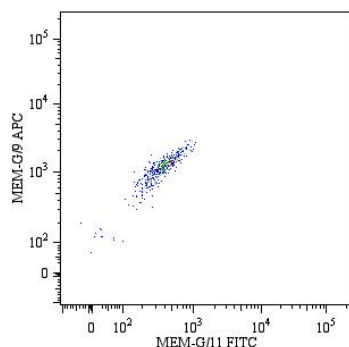
| | |
|---------------------|--|
| Storage instruction | Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory 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

ARG10092 anti-HLA G antibody [MEM-G/9] (APC) FACS image



Flow Cytometry: HLA-G1 transfectant stained with ARG10092 anti-HLA G antibody [MEM-G/9] (APC).