

## Purified Anti-Human HLA-G Antibody[87G]

catalog number: AN002910P

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

### Description

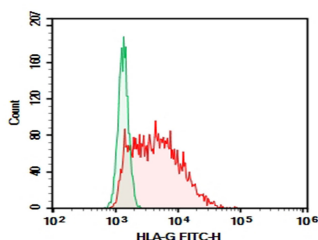
<b>Reactivity</b>	Human
<b>Immunogen</b>	Recombinant Human HLA-G protein
<b>Host</b>	Mouse
<b>Isotype</b>	Mouse IgG2a, κ
<b>Clone</b>	87G
<b>Purification</b>	>98%, Protein A/G purified
<b>Buffer</b>	Phosphate-buffered solution, pH 7.2, containing 0.05% non-protein stabilizer. Dialyze to completely remove the stabilizer prior to labeling.

### Applications

### Recommended Dilution

<b>FCM</b>	2 μg/mL (0.5×10 <sup>6</sup> -1×10 <sup>6</sup> cells)
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### Data



JEG3 were stained with 0.2 μg Purified Anti-Human HLA-G Antibody[87G] (Right) and 0.2 μg Mouse IgG2a, κ Isotype Control (Left), followed by FITC-conjugated Goat Anti-Mouse IgG Secondary Antibody.

### Preparation & Storage

<b>Storage</b>	Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles.
<b>Shipping</b>	Ice bag

### Background

#### For Research Use Only

HLA-G Antibody (4H84) is an IgG1  $\kappa$  mouse monoclonal HLA-G antibody (also designated HLA major histocompatibility complex, class I, G antibody, human leukocyte antigen (HLA) G antibody, 45 kDa transmembrane class I human leukocyte antigen G antibody, chromosome 6p22 gene complex class 1G antibody, placenta trophoblast marker antibody, or fetal derived placental cell marker antibody) that detects the HLA-G protein of mouse, rat and human origin by WB, IP, IF and IHC(P). HLA-G Antibody (4H84) is available as both the non-conjugated anti-HLA-G antibody form, as well as multiple conjugated forms of anti-HLA-G antibody, including agarose, HRP, PE, FITC and multiple Alexa Fluor® conjugates. Major histocompatibility complex (MHC), human leukocyte antigen (HLA) molecules are cell-surface receptors that bind foreign peptides and present them to T lymphocytes. MHC class I molecules consist of two polypeptide chains, an  $\alpha$  or heavy chain, and a non-covalently associated protein,  $\beta$ -2-microglobulin. Cytotoxic T lymphocytes bind antigenic peptides presented by MHC class I molecules. Antigens that bind to MHC class I molecules are typically 8-10 residues in length and are stabilized in a peptide binding groove. MHC class II molecules are encoded by polymorphic MHC genes and consist of a non-covalent complex of an a and b chain. Helper T lymphocytes bind antigenic peptides presented by MHC class II molecules. MHC class II molecules bind 13-18 amino acid antigenic peptides. Accumulating in endosomal/lysosomal compartments and on the surface of B cells, HLA-DM and -DO molecules regulate binding of exogenous peptides to class II molecules (HLA-DR) by sustaining a conformation that favors peptide exchange. The differential structural properties of MHC class I and class II molecules account for their respective roles in activating different populations of T lymphocytes.

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