### Datasheet: MCA2043

<table>
<thead>
<tr>
<th>Description:</th>
<th>MOUSE ANTI HUMAN HLA G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>HLA G</td>
</tr>
<tr>
<td>Format:</td>
<td>Purified</td>
</tr>
<tr>
<td>Product Type:</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone:</td>
<td>MEM-G/1</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity:</td>
<td>0.2 mg</td>
</tr>
</tbody>
</table>

### Product Details

**RRID**  
AB_323365

**Applications**  
This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

<table>
<thead>
<tr>
<th>Method</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
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<tr>
<td>Immunohistology - Frozen</td>
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<td></td>
</tr>
<tr>
<td>Immunohistology - Paraffin (1)</td>
<td></td>
<td></td>
<td></td>
<td>1/60 - 1/100</td>
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<tr>
<td>ELISA</td>
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<tr>
<td>Immunoprecipitation</td>
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<tr>
<td>Western Blotting (2)</td>
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</tr>
</tbody>
</table>

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

(2) MEM-G/1 recognizes HLA G under reducing conditions.

**Target Species**  
Human

**Product Form**  
Purified IgG - liquid

**Preparation**  
Purified IgG prepared by affinity chromatography on Protein A from ascites

**Buffer Solution**  
Phosphate buffered saline

**Preservative Stabilisers**  
0.09% Sodium Azide

**Approx. Protein Concentrations**  
IgG concentration 1.0mg/ml

**Immunogen**  
Denatured bacterially expressed recombinant human HLA G heavy chain.
### External Database Links

- UniProt: [P17693](#)
- Related reagents

### Entrez Gene:

- 3135 HLA-G
- Related reagents

### Synonyms

- HLA-6.0, HLAG

### Specificity

**Mouse anti Human HLA G antibody, clone MEM-G/1** reacts with denatured soluble and membrane-bound HLA G heavy chain.

The major histocompatibility complex (MHC) is a cluster of genes that are important in the immune response to infections. In humans, this complex is referred to as the human leukocyte antigen (HLA) region.

HLA G belongs to the HLA class I molecules (HLA Class Ib; nonclassical) and is involved in the presentation of foreign antigens to the immune system. This molecule is expressed on the surface of trophoblast cells and 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.

### Histology Positive Control Tissue

- Human placenta - extravillous cytotrophoblast

### References


### Storage

- Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

### Guarantee

- 18 months from date of despatch.

### Health And Safety Information

Material Safety Datasheet documentation #10040 available at:

Related Products

**Recommended Secondary Antibodies**

- Goat Anti Mouse IgG IgA IgM (STAR87...) **Alk. Phos., HRP**
- Goat Anti Mouse IgG (STAR77...) **HRP**
- Rabbit Anti Mouse IgG (STAR12...) **RPE**
- Rabbit Anti Mouse IgG (STAR8...) **DyLight®800**
- Rabbit Anti Mouse IgG (STAR13...) **HRP**
- Goat Anti Mouse IgG (STAR76...) **RPE**
- Goat Anti Mouse IgG (STAR70...) **FITC**
- Goat Anti Mouse IgG (Fc) (STAR120...) **FITC, HRP**
- Rabbit Anti Mouse IgG (STAR9...) **FITC**
- Goat Anti Mouse IgG (H/L) (STAR117...) **Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP**

**Recommended Negative Controls**

**MOUSE IgG1 NEGATIVE CONTROL (MCA928)**