

Product datasheet for **SM1591**

HLA-G (HLA-G) Mouse Monoclonal Antibody [Clone ID: MEM-G/1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-G/1
Applications:	IHC, WB
Recommended Dilution:	Western Blot: Reducing reagents are required. Immunohistochemistry on Paraffin Sections: 1/60-1/100. 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. <i>Recommended Positive Control:</i> Human placenta- extravillous cytotrophoblast.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Denatured bacterially expressed recombinant Human HLA G heavy chain
Specificity:	This antibody reacts with denatured soluble and membrane bound HLA G heavy chain.
Formulation:	PBS containing 0.09% Sodium Azide as preservative. State: Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	major histocompatibility complex, class I, G
Database Link:	Entrez Gene 3135 Human P17693



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Background:

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.

Synonyms:

HLA-6.0, HLAG, MHC class I antigen G

Note:

Predicted Molecular Weight: 38 kDa.