



HLA-G Monoclonal Antibody (87G)

Catalog Number MA1-10356

Product Data Sheet

Details		Species Reactivity	
Size	100 ug	Tested species reactivity	Human
Host / Isotype	Mouse IgG2a	Tested Applications	Dilution *
Class	Monoclonal	ELISA (ELISA)	1 µg/mL
Type	Antibody	Flow Cytometry (Flow)	2 µg/mL
Clone	87G	Functional Assay (FN)	Assay Dependent
Immunogen	HLA-B27 transgenic mice were immunized with H-2 identical murine cells transfected with and expressing genes encoding HLA-G and human beta2-microglobulin.	Immunohistochemistry (Frozen) (IHC (F))	10 µg/mL
Conjugate	Unconjugated	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Form	Liquid		
Concentration	1mg/mL		
Purification	Protein A		
Storage Buffer	PBS, pH 7.4		
Contains	no preservative		
Storage Conditions	4° C, do not freeze		

Product Specific Information

This antibody recognizes both membrane-bound and soluble forms of HLA-G (HLA-G1 and HLA-G5). It will not cross-react with mouse or rat.

Endotoxin level is less than 0.01 EU/ug of the protein, as determined by the LAL test.

Background/Target Information

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.

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