

# HLA-G Monoclonal antibody

 Catalog Number: 66447-1-Ig 21 Publications

## Basic Information

<b>Catalog Number:</b> 66447-1-Ig  <b>Size:</b> 1300 µg/ml  <b>Source:</b> Mouse  <b>Isotype:</b> IgG2b  <b>Immunogen Catalog Number:</b> AG10839	<b>GenBank Accession Number:</b> BC021708  <b>GeneID (NCBI):</b> 3135  <b>UNIPROT ID:</b> P17693  <b>Full Name:</b> major histocompatibility complex, class I, G  <b>Calculated MW:</b> 338 aa, 38 kDa  <b>Observed MW:</b> 33-45 kDa	<b>Purification Method:</b> Protein A purification  <b>CloneNo.:</b> 1E5A10  <b>Recommended Dilutions:</b> WB 1:2000-1:20000 IHC 1:50-1:500
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## Applications

<b>Tested Applications:</b> IHC, WB, ELISA  <b>Cited Applications:</b> IF, IHC, WB  <b>Species Specificity:</b> human  <b>Cited Species:</b> human  <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>Positive Controls:</b>  <b>WB :</b> human placenta tissue, <b>IHC :</b> human placenta tissue,
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## Background Information

Human major histocompatibility complex (MHC) antigens, also referred to as human leukocyte antigens (HLA), are encoded by genes located on the short arm of chromosome 6 (6p21.3). HLA-G is a non-classical MHC class I molecule with multiple immunoregulatory properties. HLA-G exhibits a restricted pattern of expression that includes placental extravillous trophoblasts at the maternal-fetal interface, where it abolishes maternal immune cell activity against fetus and establishes immune tolerance. Aberrant expression of HLA-G has been found in a variety of human neoplastic diseases. It plays an important role in the escape of tumor cells from immunosurveillance.

## Notable Publications

Author	Pubmed ID	Journal	Application
Liling Xiong	34605151	Aging Cell	IHC,IF
Manni Sun	33205477	FASEB J	IHC
Jingmei Ma	36420138	Front Cell Dev Biol	IHC,IF

## Storage

**Storage:**  
 Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
 PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
 Aliquoting is unnecessary for -20°C storage

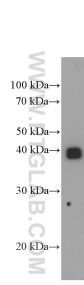
For technical support and original validation data for this product please contact:

T: 4006900926

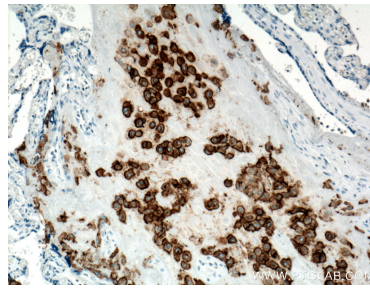
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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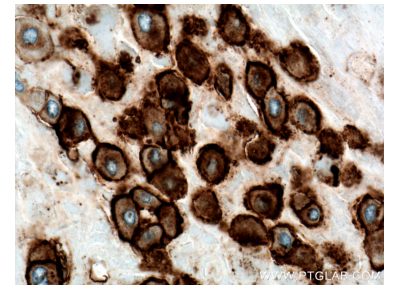
## Selected Validation Data



human placenta tissue were subjected to SDS PAGE followed by western blot with 66447-1-Ig (HLA-G Antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 66447-1-Ig (HLA-G Antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human placenta tissue slide using 66447-1-Ig (HLA-G Antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).