

## HLA-G Recombinant Rabbit Monoclonal Antibody Product Datasheet

Catalog# BX50270

Clone# BP6247

**Predicted Molecular Wt:** 38kDa  
**Species Cross-reactivity:** Human  
**Applications:** IHC-P

**Purity:** ProA affinity purified IgG  
**Form:** Liquid  
**Swissprot ID:** P17693

### Background:

HLA-G (HLA-G histocompatibility antigen, class I, G) is a non-classical MHC molecule expressed by trophoblasts in placenta, thymic epithelial cells, and some tumors. Alternative splicing leads to generation of at least six isoforms, four that are transmembrane proteins and two that are soluble. It is an inhibitory molecule involved in immune tolerance and escape, originally studied for its role in maternal tolerance of the fetus during pregnancy. HLA-G binds ILT2, ILT4, and KIR2DL4, playing a role in the regulation of natural killer, T, and monocyte/macrophage cells. Its involvement in evasion of immune response makes it a potential target for immunotherapy.

HLA-G is mainly expressed in placental trophoblastic cells and choriocarcinoma cells.

### Subcellular location:

Membrane

### Recommended Method:

Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

### Immunogen:

Recombinant protein fragment of human HLA-G was used as an immunogen.

### Storage Buffer:

PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

### Storage Conditions:

-25°C to -18°C

### Shipment Instructions:

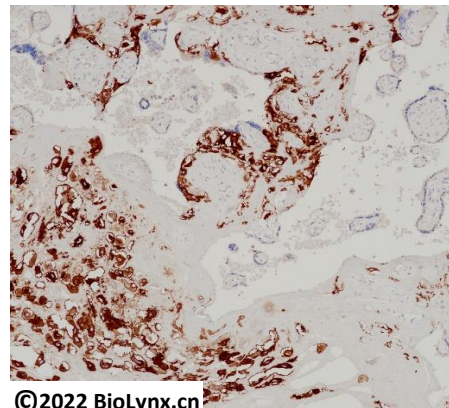
Shipped on blue ice. Upon delivery store at -25°C to -18°C. Avoid freeze / thaw cycles.

### Recommended Dilution:

IHC-P: 1:100-1:200

### Background References:

1. Curigliano, G. et al. (2013) Clin Cancer Res 19, 5564-71.
2. Shiroishi, M. et al. (2003) Proc Natl Acad Sci U S A 100, 8856-61.



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human placenta labelling HLA-G with BP6247.

Product QC'd by:



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