

# Product Datasheet

## HLA G Antibody (MEM-G/9) - BSA Free NB500-314

Unit Size: 0.1 mg

Store at 4C. Do not freeze.

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**NB500-314**

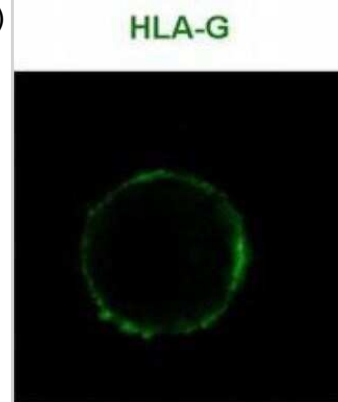
HLA G Antibody (MEM-G/9) - BSA Free

<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C. Do not freeze.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	MEM-G/9
<b>Preservative</b>	0.9% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS (pH 7.4)
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	3135
<b>Gene Symbol</b>	HLA-G
<b>Species</b>	Human, Mouse (Negative)
<b>Specificity/Sensitivity</b>	The antibody MEM-G/9 reacts with native form of human HLA-G1 on the cell surface as well as with soluble HLA-G5 isoform in its beta2-microglobulin associated form. Reactivity with HLA-G3 was also reported. The antibody MEM-G/9 is standard reagent thoroughly validated during 3rd International Conference on HLA-G (Paris, 2003).
<b>Immunogen</b>	Recombinant human HLA G Antibody (MEM-G/9) refolded with beta2-microglobulin and peptide (NM_002127.5)
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, CyTOF-ready
<b>Recommended Dilutions</b>	Western Blot 1:100-1:2000, Flow Cytometry 0.3-4 ug/ml, ELISA 1:2000, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 2-5 ug/ml, Immunoprecipitation 1:50, Immunohistochemistry-Frozen 1:200, CyTOF-ready
<b>Application Notes</b>	ELISA: The antibody MEM-G/9 has been tested as the capture antibody in a sandwich ELISA for analysis of human HLA-G in combination with antibody B2M-01 or with antibody W6/32. Coating antibody (10 ug/ml), detection antibody (biotin or peroxidase conjugate, 1 ug/ml). Purity is > 95% (by SDS-PAGE). Use in western blot reported in scientific literature ( PMID 24054889). This antibody is CyTOF ready.

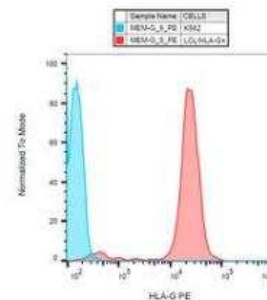


## Images

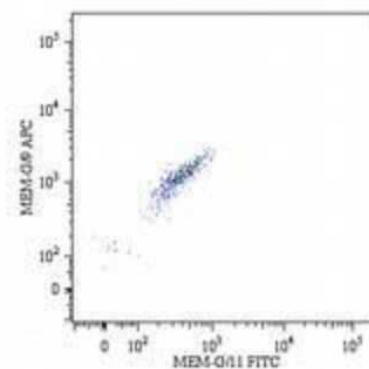
Immunocytochemistry/Immunofluorescence: HLA G Antibody (MEM-G/9) [NB500-314] - Staining of HLA-G1 transfectants (LCL-HLA-G1) using Alexa Fluor 488 conjugated anti-human HLA-G (MEM-G/9).



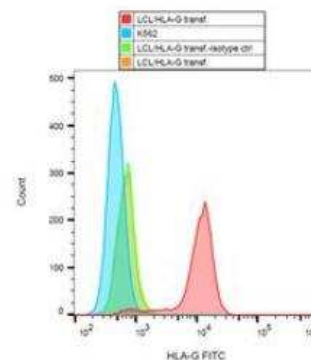
Flow Cytometry: HLA G Antibody (MEM-G/9) [NB500-314] - Surface staining of HLA-G1 transfectants (LCL-HLA-G1) using anti-HLA-G (MEM-G/9) PE.



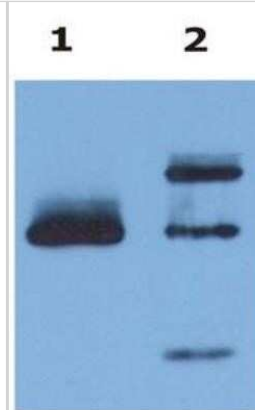
Flow Cytometry: HLA G Antibody (MEM-G/9) [NB500-314] - Analysis of APC conjugate of NB500-314. Double surface staining of HLA-G1 transfectants (viable cells gate) using anti-human HLA-G (MEM-G/9) APC and anti-human HLA-G (MEM-G/11) FITC.



Flow Cytometry: HLA G Antibody (MEM-G/9) [NB500-314] - Surface staining of HLA-G1 transfectants (LCL-HLA-G1) using anti-HLA-G (MEM-G/9) FITC.



Immunoprecipitation: HLA G Antibody (MEM-G/9) [NB500-314] - Immunoprecipitation of HLA-G from HLA-G1 transfected lysates (LCL-HLA-G1) by anti-human HLA-G (MEM-G/9, NB500-314) and protein G. HLA-G was detected by anti-human HLA-G (4H84) and goat anti-mouse HRP in cell lysate (Lanes 1) and in the immunoprecipitate (Lanes 2).



## Publications

Wei Y, Xiao L, Ma L et al. Protocol to derive human trophoblast stem cells directly from primed pluripotent stem cells STAR protocols 2022-09-16 [PMID: 36042882] (ICC/IF, Human)

Details:

Dilution used for ICC 1:500

Friedrich M, Vaxevanis CK, Biehl K et al. Targeting the coding sequence: opposing roles in regulating classical and non-classical MHC class I molecules by miR-16 and miR-744 J Immunother Cancer 2020-06-01 [PMID: 32571994] (WB, Human)

Liu X, Gu W, Li X. HLA-G regulates the invasive properties of JEG-3 choriocarcinoma cells by controlling STAT3 activation. Placenta. 2013-11-01 [PMID: 24054889] (WB, Human)

Kang HM, Kim J, Park S et al. Insulin-Secreting Cells from Human Eyelid-Derived Stem Cells Alleviate Type I Diabetes in Immunocompetent Mice. Stem Cells;27(8):1999-2008. 2009-01-01 [PMID: 19544420]



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### **Products Related to NB500-314**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)
NBP2-61457-20ug	Recombinant Human HLA G His Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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