

TECHNICAL DATA SHEET

CyFlow™ HLA-G Purified Anti-Hu; Clone 01G

REF BK306347

For Research Use Only.
Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	HLA-G
Alternative Names	—
Clone	01G
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
Negative Species Reactivity	Mouse Rat
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	HLA-B27 transgenic mice were immunized with H-2 identical murine cells transfected with and expressing genes encoding HLA-G and human β 2-microglobulin

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Specificity

The mouse monoclonal antibody 01G recognizes membrane-bound form of HLA-G (full-length HLA-G1) antigen, but not soluble forms. HLA-G belongs to the MHC Class I molecules (MHC Class Ib; nonclassical) and it is expressed on the surface of trophoblast cells.

Application

Based on published sources, this antibody is suitable for the following applications:

- Flow cytometry
- Immunoprecipitation
- Immunohistochemistry (frozen sections)
- Immunocytochemistry
- Enzyme-linked immunosorbent assay

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH $\approx$ 7.4, containing 0.1% (w/v) sodium azide.

Storage and Stability

Storage	Avoid prolonged exposure to light. Store in the dark at 2-8°C. Do not freeze.
Stability	Do not use after expiration date stamped on vial label.

References

- Real LM, Cabrera T, Collado A, Jimenez P, Garcia A, Ruiz-Cabello F, Garrido F: Expression of HLA G in human tumors is not a frequent event. Int J Cancer. 1999 May 17; 81(4):512-8. < PMID: 10225437 >
- Real LM, Cabrera T, Canton J, Oliva R, Ruiz-Cabello F, Garrido F: Looking for HLA-G expression in human tumours. J Reprod Immunol. 1999 Jul; 43(2):263-73. < PMID: 10479062 >
- Polakova K, Russ G: Expression of the non-classical HLA-G antigen in tumor cell lines is extremely restricted. Neoplasma. 2000; 47(6):342-8. < PMID: 11263857 >
- Ishitani A, Sageshima N, Lee N, Dorofeeva N, Hatake K, Marquardt H, Geraghty DE: Protein Expression and Peptide Binding Suggest Unique and Interacting Functional Roles for HLA-E, F and G in Maternal-Placental Immune Recognitions. J Immunol. 2003; 171:1376. < PMID: 12874228 >

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- Polakova K, Bandzuchova E, Hofmeister V, Weiss EH, Hutter H, Russ G: Binding analysis of HLA-G specific antibodies to hematopoietic cells isolated from leukemia patients. Neoplasma. 2003; 50(5):331-8. < PMID: 14628085 >
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- Wiendl H, Feger U, Mittelbronn M, Jack C, Schreiner B, Stadelmann C, Antel J, Brueck W, Meyermann R, Bar-Or A, Kieseier BC, Weller M: Expression of the immune-tolerogenic major histocompatibility molecule HLA-G in multiple sclerosis: implications for CNS immunity. Brain. 2005 Nov; 128(11):2689-2704. < PMID: 16123145 >

The Safety Data Sheet for this product is available at www.sysmex-partec.com/services.

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