EXBIO Antibodies

PRODUCT DATA SHEET

F4-292-C050

Monoclonal Antibody to HLA-G Fab fragment conjugated to Alexa Fluor® 488 (0.05 mg)

Clone:	MEM-G/9
Isotype:	Mouse IgG1
Specificity:	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. HLA-G belongs to the MHC Class I molecules (MHC Class Ib; nonclassical) and it is expressed on the surface of trophoblast cells. The antibody MEM-G/9 is standard reagent thoroughly validated during 3rd International Conference on HLA-G (Paris, 2003).
Immunogen:	Recombinant human HLA-G refolded with beta2-microglobulin and peptide.
Species Reactivity:	Human
Negative Species:	Mouse
Preparation:	Fab fragment was prepared by ficin digestion of the purified IgG followed by protein-A affinity chromatography to remove the remaining intact IgG or Fc fragments. The Fab fragment was conjugated with Alexa Fluor® 488 under optimum conditions. The conjugate is purified by size-exclusion chromatography and lyophilized from the Storage Buffer.
Storage Buffer:	Azide free phosphate buffered saline (PBS) containing 0.1 M trehalose, approx. pH 7.4.
Storage / Stability:	Lyophilized product is stable for at least 12 months at -20°C. After reconstitution, store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.
Usage:	Before use, reconstitute the content of the vial with 50 µl of deionized water to get a concentration of fragment 1 mg/ml and mix well. The reagent is designed for immunofluorescence image analysis, including use in living cell systems. Recommended working concentration is 5 µg/ml.
Expiration:	See vial label
Lot Number:	See vial label

For laboratory research only, not for drug, diagnostic or other use.

EXBIO Praha | Nad Safinou II 341 | 252 42 Vestec u Prahy | Czech Republic
Tel: +420 261 090 664 | Fax: +420 261 090 660 | orders@exbio.cz | www.exbio.cz

References:

*Fournel S, Huc X, Aguerre-Girr M, Solier C, Legros M, Praud-Brethenou C, Moussa M, Chaouat G, Berrebi A, Bensussan A, Lenfant F, Le Bouteiller P.: Comparative reactivity of different HLA-G monoclonal antibodies to soluble HLA-G molecules. Tissue Antigens. 2000 Jun;55(6):510-8.

*Lozano JM, Gonzalez R, Kindelan JM, Rouas-Freiss N, Caballos R, Dausset J, Carosella ED, Pena J.: Monocytes and T lymphocytes in HIV-1-positive patients express HLA-G molecule. AIDS. 2002 Feb 15;16(3):347-51.

*Pangault C, Le Friec G, Caulet-Maugendre S, Lena H, Amiot L, Guilloux V, Onno M, Fauchet R.: Lung macrophages and dendritic cells express HLA-G molecules in pulmonary diseases. Hum Immunol. 2002 Feb;63(2):83-90.

*Fuzzi B, Rizzo R, Criscuoli L, Noci I, Melchiorri L, Scarselli B, Bencini E, Menicucci A, Baricordi OR.: HLA-G expression in early embryos is a fundamental prerequisite for the obtainment of pregnancy. Eur J Immunol. 2002 Feb;32(2):311-5.

*Menier C, Saez B, Horejsi V, Martinozzi S, Krawice-Radanne I, Bruel S, Le Danff C, Reboul M, Hilgert I, Rabreau M, Larrad ML, Pla M, Carosella ED, Rouas-Freiss N.: Characterization of monoclonal antibodies recognizing HLA-G or HLA-E: new tools to analyze the expression of nonclassical HLA class I molecules. Hum Immunol. 2003 Mar;64(3):315-26.

*Abstracts from the 3rd International Conference on HLA-G. Tissue Antigens 62, 339-357 (2003).

*Lopez AS, Alegre E, LeMaoult J, Carosella E, Gonzalez A. Regulatory role of tryptophan degradation pathway in HLA-G expression by human monocyte-derived dendritic cells. Mol Immunol. 2006 Jul;43(14):2151-60.

*Gonen-Gross T, Achdout H, Arnon TI, Gazit R, Stern N, Horejsí V, Goldman-Wohl D, Yagel S, Mandelboim O: The CD85J/leukocyte inhibitory receptor-1 distinguishes between conformed and beta 2-microglobulin-free HLA-G molecules. J Immunol. 2005 Oct 15;175(8):4866-74.