



F4-292-C050

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

<b>Clone:</b>	MEM-G/9
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	<p>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.</p> <p>The antibody MEM-G/9 is standard reagent thoroughly validated during 3rd International Conference on HLA-G (Paris, 2003).</p>
<b>Immunogen:</b>	Recombinant human HLA-G refolded with beta2-microglobulin and peptide.
<b>Species Reactivity:</b>	Human
<b>Negative Species:</b>	Mouse
<b>Preparation:</b>	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.
<b>Storage Buffer:</b>	Azide free phosphate buffered saline (PBS) containing 0.1 M trehalose, approx. pH 7.4.
<b>Storage / Stability:</b>	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.
<b>Usage:</b>	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.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label

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

**Antibodies****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.
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- \*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.
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- \*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, LeMaout 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.
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