

HLA-G Antibodies

EXBIO history

• 1990 EXBIO Ltd. is founded as a Spin-off company from the Institute of Molecular Genetics, Prague. EXBIO signs exclusive rights to commercialize the collection of unique monoclonal antibodies.

• 1992 EXBIO begins producing mouse ascitic fluid and signs the first OEM manufacture contracts to supply bulk quantities to the antibody manufacturers worldwide.

• 1998 Change of the organizational structure of EXBIO Ltd. results in the registration of the new joint-stock company EXBIO Praha, a.s.

• 1999 EXBIO launches first website and starts selling the catalog products for research under EXBIO brand to end-users. Products offered under OEM contracts are listed in catalogs of world-wide vendors and manufacturers.

• 2004 EXBIO establishes the large-scale bioprocess technologies to respond the customer's demands for contract manufacture of purified monoclonal antibody batches in the gram quantities.

• 2005 Alexa Fluor® and Pacific Blue[™] primary antibody conjugates are introduced in to the catalog product offerings. EXBIO initiates hybridoma in-licensing programme with world-wide universities and research institutions to expand product portfolio for the multicolor flow cytometry.

• 2009 EXBIO expands the scope of quality management system and receives certification for ISO 9001:2008 and ISO 13485:2003.

• 2010 EXBIO moves (again) into a brand-new facility (2 200 sq. m.) in order to effectively respond to the customer's needs for large volumes of product and contract manufacture operations.

• 2013 Fluorescent Tandem dye technology development is accomplished. First tandem dye (PE-Cy™7) primary antibody conjugates are introduced in to the catalog product offerings.

• 2019 EXBIO launches the new logo, graphical design and website to enter into new 20-yearsperiod of serving its customers and commitment to their needs.

• 2020 EXBIO acquires Apronex, a small biotech company with expertise in recombinant protein technologies, in order to meet growing customers demands specifically on allergy-screening assays.

About us

Helping our customers to clearly see every cell in the flow.

EXBIO is a leading manufacturer of monoclonal antibodies and reagents for research and clinical applications with focus on multi-color flow cytometry analysis of human cellular markers.

Our comprehensive portfolio of more than 4 000 off-the-shelf products covers a diverse set of areas including Hematology, Immunology, Cancer, Stem cells, and Cell Biology. With the experienced cytometry experts and biotech engineers, EXBIO offers to our customers long-term validated antibody markers in the broad selection of fluorochrome conjugates.

Our commitment to the customer's needs, supported by our integrated quality management system compliant with ISO 13485:2016 and ISO 9001:2015 allow us to accomplish our mission.

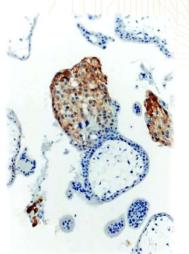
EXBIO strives to exceed the most demanding customer expectations in the field of analytical cytometry by providing a comprehensive portfolio of high quality products and services at affordable prices.

Vision: A Brighter Future in Flow



EXBIO II Research and Technology Centre (2 200 m²)





Immunohistochemistry analysis (DAB visualization) of paraffin-embedded section of human first-trimester placenta using the antibody MEM-G/1

HLA-G Antibodies

Understanding the role of HLA-G molecules under normal and pathological situations atracts many researchers and highly specific monoclonal antibodies are needed. EXBIO offers a panel of unique antibodies that have been thoroughly validated by organizers of HLA-G Workshops and are recommended as reference HLA-G antibodies.

On this occasion we want to promote our complex panel of anti-HLA-G antibodies:

Antibody clone	lsotype	Flow cytometry	Immunohistochemistry		Western			
			Frozen sections	Paraffin sections	blotting	ELISA	Blocking	Specificity
MEM-G/1	lgG1	poor	very good	very good	excellent	see footnote ¹	negative	all HLA-G isoforms (denatured)
MEM-G/9	lgG1	excellent	excellent	negative	negative	excellent	negative	HLA-G1 and HLA-G5 (conformational)
MEM-G/11	lgG1	excellent	excellent	not tested	negative	good	negative	HLA-G1 (conformational)
5A6G7	lgG1	poor	excellent	excellent	very good	excellent	negative	HLA-G5 and HLA-G6 (anti-peptide)
2A12	lgG1	excellent (intracellular)	very good	excellent	excellent	good	negative	HLA-G5 and HLA-G6 (anti-peptide)
MEM-G/2	lgG1	poor	very good	excellent	very good	not tested	negative	all HLA-G isoforms (denatured)
87G	lgG2a	excellent	excellent	negative	negative	very good	excellent	HLA-G1 and HLA-G5 (conformational)
01G	lgG1	very good	very good	negative	negative	good	negative	HLA-G1 (conformational)
G233	lgG2a	good	not tested	not tested	not tested	good	not tested	several HLA-G isoforms
4H84	lgG1	not tested	not tested	good	good	good	not tested	all HLA-G isoforms
MEM-G/4	lgG1	poor	not tested	not tested	excellent	not tested	negative	HLA-G1, HLA-G2, HLA-G5 (denatured)

¹ Antibody MEM-G/1 is excellent detection antibody in ELISA system detecting free HLA-G heavy chains.



EXBIO portfolio

Monoclonal Antibodies

→ wide portfolio against different targets mainly CD markers

- → many fluorochrome formats
- → about 900 antigens
- → nearly 1 000 clones

Kombitests

→ wide offer of **premixed cocktails** of monoclonal antibodies:

- 2 color reagents
- 3 color reagents
- 4 color reagents
- 6 color reagents

Flow Cytometry Kits

- → for Allergy Analysis
 - BasoFlowEx[®] Kit + Allergens
- → for T-lymphocytes Proliferation Analysis
 - •T-cell BlastoFlowEx®Kit + Mitogens
- → for Phagocytosis Analysis
 - FagoFlowEx[®] Kit
 - IngoFlowEx[®] Kit
- → for NK cells Activation Analysis

NKFlowEx[®] Kit

- → for Human Reproduction Analysis
 - SpermFlowEx® Kit
- → for T-regulation cells Analysis
 - TregFlowEx[®] Kit
- → for Cell Cycle Analysis
 - ApoFlowEx[®] Kit
 - CellCycleFlowEx[®] Kit
- → for Stem cells Analysis
 - CD34QuantiFlowEx® Kit

Lysing Solutions

- EXCELLYSE® Easy
- EXCELLYSE[®] Live
- EXCELLYSE[®] I
- EXCELLYSE® XPerm

sHLA-G ELISA Kit

The kit is suitable for the determination of soluble forms of Human Leukocyte Antigen-G (sHLA-G) in amniotic fluid, cell culture supernatant, plasma and serum.

In this sHLA-G ELISA, standards and samples are incubated in microtitration wells coated with mouse monoclonal antibody **MEM-G/9**, which recognizes the most abundant soluble isoforms, shedded HLA-G1 and intron4-containing secreted HLA-G5.

Immobilized antibody/sHLA-G complex is detected by mouse monoclonal anti-human beta2-microglobulin antibody conjugated with horseradish peroxidase (HRP).

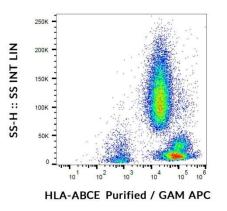
Product		Cat. No.	Quantity	
Human sHLA-G ELISA		RD194070100R	96 tests	

HLA-ABCE Antibodies

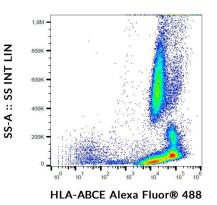
Besides 11 anti-HLA-G monoclonal antibody clones in various formats, EXBIO offers unique antibody detecting **anti-HLA-ABCE molecules**.

The **clone TP25.99SF** recognizes HLA-ABC and HLA-E, but not HLA-G. It can be used for discrimination between HLA-G and other HLA-class I antigens.

Format	Cat. No.	Application
Purified	11-813-C100	FC, WB, IHC(F)
PE	1P-813-C100	FC
Alexa Fluor [®] 488	A4-813-C100	FC

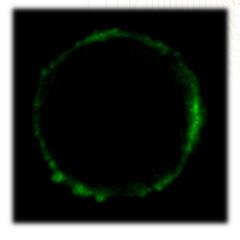


Flow cytometry analysis of human peripheral blood cells stained with anti-HLA-ABCE (clone **TP25.99SF, purified,** GAM-APC)

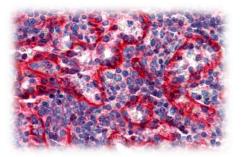


Flow cytometry analysis of human peripheral blood stained with anti-HLA-ABCE (clone **TP25.99SF**, **Alexa Fluor® 488**)

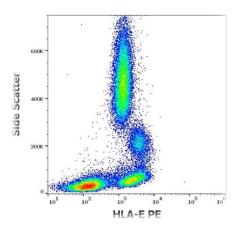




Immunofluorescence staining of HLA-G1 transfectants (LCL-HLA-G1) using antihuman HLA-G (clone MEM-G/9) Alexa Fluor® 488 Fab-fragment



Immunohistochemistry staining of human spleen (paraffin sections) with anti-HLA-E (clone MEM-E/07)

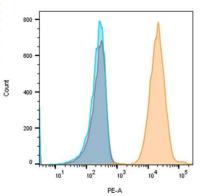


Flow cytometry surface staining pattern of human peripheral blood stained using antihuman HLA-E (3D12) PE antibody (concentration in sample 2 μ g/ml).

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Flow cytometry analysis of human peripheral blood leukocytes stained with anti-HLA-ABCE (clone **TP25.99SF**, orange), anti-HLA-G (clone **MEM-G/9**, **PE**, red) and isotype control (blue).



Flow cytometry analysis of LCL-HLA-G transfectants stained with anti-HLA-G (clone **MEM-G/9**, red), anti-HLA-ABCE (clone **TP25.99SF**, blue) and isotype control (orange).

Other related products

Antigen	Antibody clone	Isotype	Application
HLA-ABCE	TP25.99SF	lgG1	WB, FC
HLA-A2	BB7.2	lgG2b	FC, IP
HLA-B7	BB7.1	lgG1	FC
HLA-Class I	MEM-147	lgG1	FC, IP, WB
HLA Class I	MEM-81	lgG1	FC
HLA Class I	MEM-123	lgG3	FC, IP, ELISA
HLA Class I	W6/32	lgG2a	FC, IP, WB, IHC(F), ICC, ELISA, MC, FUNC
HLA-DQ1+DQ3	HL-37	lgG3	FC, IP, WB
HLA-DR	HL-39	lgG3	FC, IP
HLA-DR	MEM-12	lgG1	FC, IP, WB
HLA-DR	L243	lgG2a	FC, IP, WB, IHC(P), IHC(F), ICC, FUNC
HLA-DR+DP	HL-38	lgG2a	FC, IP, WB, IHC(P)
HLA-DR+DP	HL-40	lgG2a	FC, IP, IHC(P)
HLA-DR+DP	MEM-136	lgG1	FC, IP, WB, IHC(P)
HLA-DR1 (empty)	MEM-267	lgG2b	WB, FC, ELISA
HLA-E	3D12	lgG1	FC, IP, ELISA
HLA-E	MEM-E/02	lgG1	WB, IHC(P)
HLA-E	MEM-E/06	lgG1	FC, IP, IHC(P)
HLA-E	MEM-E/07	lgG1	FC, IP, IHC(P)
HLA-E	MEM-E/08	lgG1	FC, IP
HLA-F	3D11	lgG1	FC, WB

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