

TECHNICAL DATA SHEET

CyFlow™ HLA-E Purified Anti-Hu; Clone MEM-E/06

REF BS361914

For Research Use Only.

Not for use in diagnostic or therapeutic procedures.

Specifications

Antigen	HLA-E
Alternative Names	—
Clone	MEM-E/06
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human, Non-Human Primates
Negative Species Reactivity	—
Quantity [Concentration]	0.1 mg [1 mg/ml]
Immunogen	Bacterially expressed recombinant HLA-E refolded with β 2-microglobulin and peptide

Specificity

The mouse monoclonal antibody MEM-E/06 recognizes native surface-expressed HLA-E, but not denaturated heavy chain of HLA-E. HLA-E belongs to the MHC Class I molecules (MHC Class Ib;

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

nonclassical) and it is expressed on many types of the human cells. The published results showed that the antibody cross-reacts with some classical MHC Class I molecules (HLA-A3, -A11, -B7). However, the Workshop I Session on the 3rd International Conference on HLA-G (Paris, July 2003) confirmed that the antibody exhibits much broader cross-reactivity classical MHC Class I antigens, namely with HLA-A24, -A32, -B8, -B15, -B27, -B35, -B44, -B54, -C3, -C4, -C5, -C7.

Application

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

- Flow cytometry
- Immunoprecipitation
- Immunohistochemistry (paraffin-embedded sections)

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

- 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. < PMID: 12590976 >
- Palmisano GL, Contardi E, Morabito A, Gargaglione V, Ferrara GB, Pistillo MP: HLA-E surface expression is independent of the availability of HLA class I signal sequence-derived peptides in human tumor cell lines. Hum Immunol. 2005 Jan; 66(1):42705. < PMID: 15620456 >
- Gonen-Gross T, Achdout H, Arnon TI, Gazit R, Stern N, Horejsi 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. < PMID: 16210588 >

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com

- Dambaeva SV, Bondarenko GI, Grendell RL, Kravitz RH, Durning M, Golos TG: Non-classical MHC-E (Mamu-E) expression in the rhesus monkey placenta. Placenta. 2008 Jan; 29(1):58-70. < PMID: 17996936 >
- Lo Monaco E, Tremante E, Cerboni C, Melucci E, Sibilio L, Zingoni A, Nicotra MR, Natali PG, Giacomini P: Human leukocyte antigen E contributes to protect tumor cells from lysis by natural killer cells. Neoplasia. 2011 Sep; 13(9):822-30. < PMID: 21969815 >

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

Contact Information:

Sysmex Partec GmbH • Am Flugplatz 13 • 02828 Görlitz • Germany
Tel +49 3581 8746 0 • Fax +49 3581 8746 70 • E-mail: info@sysmex-partec.com