

TECHNICAL DATA SHEET

CyFlow™ HLA-E Purified Anti-Hu; Clone MEM-E/07

REF BL603135

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

Specifications

Antigen	HLA-E
Alternative Names	—
Clone	MEM-E/07
Clonality	monoclonal
Format	Purified
Host / Isotype	Mouse / IgG1
Species Reactivity	Human
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/07 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;

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nonclassical) and it is expressed on many types of the human cells. The published results revealed that the antibody cross-reacts with some classical MHC Class I molecules (MHC Class Ia): HLA-B7 (strongly), HLA-B8 (moderately), HLA-B27, -B44 (weakly).

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

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- 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 >
- 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 >
- Nachmani D, Zimmermann A, Oiknine Djian E, Weisblum Y, Livneh Y, Khanh Le VT, Galun E, Horejsi V, Isakov O, Shomron N, Wolf DG, Hengel H, Mandelboim O: MicroRNA editing facilitates immune elimination of HCMV infected cells. PLoS Pathog. 2014 Feb 27; 10(2):e1003963. < PMID: 24586166 >

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

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