

TECHNICAL DATA SHEET

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

REF AU515518

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	Biotin
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

The reagent is designed for indirect immunofluorescence analysis by Flow Cytometry. Suggested working usage is 2 µg/ml. Indicated dilution is recommended starting point for use of this product, but working concentrations should be validated by the investigator.

Other usages may be determined from the scientific literature.

Storage Buffer

The reagent is provided in phosphate buffered saline (PBS) solution, pH ≈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

- Sibilio L, et al.: Abstract 45 from the 3rd International Conference on HLA-G; Paris, July 2003. Tissue Antigens. 2003; 62:339. < No PMID >
- 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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