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1. Description

This product is for research use only.

Components 30 tests:

 $1\times~150~\mu L~MHC~MACSimer~A^*0201~MART-1~(ELAGIGILTV), human, Vio R667~(100~pmol)$

90 tests:

 $3\times~150~\mu L~MHC~MACSimer~A^*0201~MART-1~(ELAGIGILTV), human, Vio R667~(100~pmol)$

Class I MHC Class I Allele A*0201

lack Note: The allele number is based on the human leukocyte antigen (HLA) nomenclature to designate a specific allele at

a given HLA locus.

Antigen MART-1
Peptide sequence ELAGIGILTV

Species reactivity human Release feature yes

Control MHC MACSimer A*0201 Control, human, Vio

R667

Product format Reagents are supplied in buffer containing

stabilizer and 0.05% sodium azide.

Storage Store protected from light at +2 to +8 °C. Do

not freeze. The expiration date is indicated on

the vial label.

1.1 Background information

Peptide-loaded MHC MACSimers have been developed for the accurate detection, analysis, and isolation of antigen-specific T cells from different origins, ranging from peripheral blood mononuclear cells (PBMCs) to dissociated organs and whole blood samples. MHC MACSimers are offered in various peptide-MHC allele combinations and cover the most important antigens associated with cancer, infection, and autoimmune diseases. MHC MACSimers are optimized for minimal hands-on time protocols. They feature superior brightness, enabling reliable identification of even rare T cell populations via their T cell receptor complex (TCR). For sequential multi-sorting or further downstream applications, MHC MACSimers of certain allelic variants can be released from the antigen-specific T cells after staining using REAlease* Technology.

MHC MACSimer A*0201 MART-1 (ELAGIGILTV), human, Vio® R667

30 tests 130-135-292 90 tests 130-135-293

1.2 Applications

- Detection and analysis of antigen-specific T cells by flow cytometry
- Sorting and enrichment of antigen-specific T cells by flow sorting

1.3 Reagent and instrument requirements

- Flow cytometer equipped with a red (640 nm), a blue (488 nm), and a violet (405 nm) laser, e.g., MACSQuant* Analyzer 10 (# 130-096-343) or MACSQuant Analyzer 16 (# 130-109-803)
- (Optional) MHC MACSimer A*0201 Control, human, Vio R667 (# 130-134-697, # 130-134-699)
- (Optional) REAlease Support Kit (# 130-120-675)
- (Optional) Cell sorter equipped with a red (640 nm), a blue (488 nm), and a violet (405 nm) laser, e.g., MACSQuant Tyto* (# 130-103-931)

2. Protocol

▲ The detailed protocol and an exemplary MHC MACSimer staining data set are available at www.miltenyibiotec.com/peptide-loaded-MHC-class-1-MACSimer-staining.html.

	30 tests	90 tests
Number of staining reactions	≥30 with 10 ⁶ cells each	≥90 with 10 ⁶ cells each

Table 1: Reagent capacities for staining reactions.

Refer to www.miltenyibiotec.com for all data sheets and protocols. Miltenyi Biotec provides technical support worldwide. Visit www.miltenyibiotec.com for local Miltenyi Biotec Technical Support contact information.

Order no. 130-135-292 Order no. 130-135-293

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