

MHC MACSimer A*0201 FleX Kit, human, PE

50 tests
100 tests

130-133-925
130-133-926

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1. Description

This product is for research use only.

Components	<p>One kit for 50 tests contains:</p> <p>1× 150 µL MHC MACSimer A*0201 FleX Reagent, human, PE (100 pmol)</p> <p>1× 100 µL MHC MACSimer A*0201 FleX Loading Buffer</p> <p>One kit for 100 tests contains:</p> <p>2× 150 µL MHC MACSimer A*0201 FleX Reagent, human, PE (100 pmol)</p> <p>2× 100 µL MHC MACSimer A*0201 FleX Loading Buffer</p>
Class	MHC Class I
Allele	A*0201
Antigen	custom
Peptide sequence	custom
Species reactivity	human
Release feature	yes
Product format	MHC MACSimer FleX Reagents are supplied in buffer containing stabilizer and 0.05% sodium azide. MHC MACSimer FleX Loading Buffer contains 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

MHC MACSimer FleX Kits have been designed for the highly flexible analysis of antigen-specific T cells. The antigenic peptide of interest, such as a disease-associated peptide, is loaded onto the provided MHC MACSimer FleX Reagent for subsequent analysis of antigen-specific T cells. With the kit, a single epitope of interest can be easily analyzed in multiple samples. Alternatively, a large number of different (potential) epitopes can be screened in parallel. 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. The MHC MACSimer FleX Kits allow maximum flexibility for various applications, like neoantigen discovery, screening of

potential cancer, autoimmune or pathogen-related T cell epitopes, as well as monitoring of antigen-specific T cell responses.

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 or MACS® Technology (magnetic enrichment using Anti-PE MicroBeads)

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) 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)
- (Optional) Anti-PE MicroBeads (# 130-048-801)

2. Protocol

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

	50 tests	100 tests
Number of loading reactions	5 with 50 µL each	10 with 50 µL each
Number of staining reactions	≥50 with 10 ⁶ cells each	≥100 with 10 ⁶ cells each

Table 1: Kit capacities for loading and 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.

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