



Miltenyi Biotec

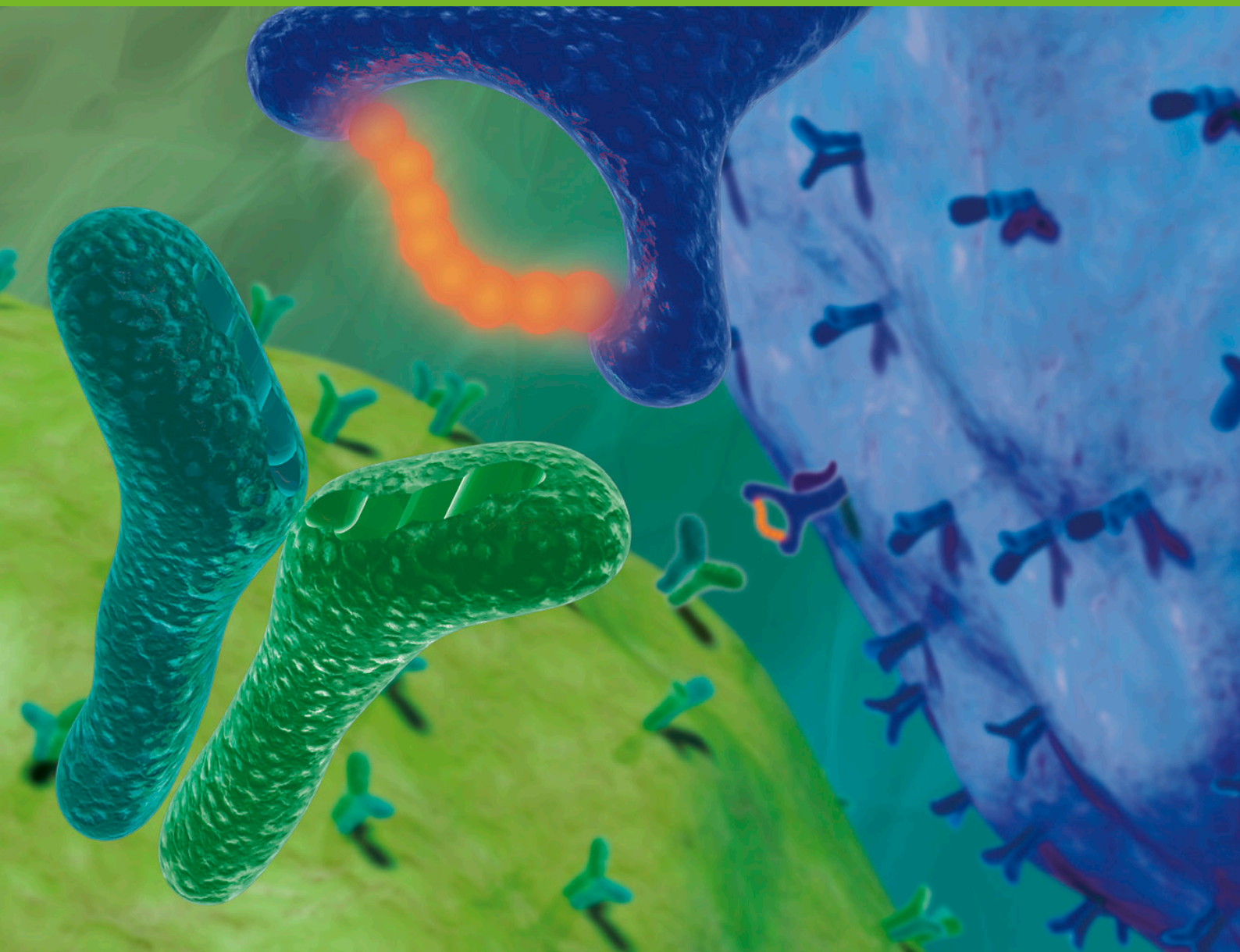
PepTivator® Peptide Pools

Standardize your T cell assays

Enjoy the benefits of effective stimulation of antigen-specific T cells with an extensive panel of virus- or tumor-specific antigens – available in three convenient quality grades to suit your needs.

- Fast and efficient restimulation of CD4⁺ and CD8⁺ T cells
- Covers the sequence of the respective antigen
- Pulsing of antigen-presenting cells for research on dendritic cell vaccination

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Effective stimulation

PepTivator® Peptide Pools are ideal tools for the efficient *in vitro* stimulation of antigen-specific CD4⁺ and CD8⁺ T cells. In general, their composition of 15-mer peptides with an 11-amino-acid overlap covers the complete sequence of the respective antigen. This has been shown to be most effective for stimulating CD4⁺ as well as CD8⁺ T cells in various applications, e.g., immunomonitoring or research in immunotherapy and vaccination.

Three quality grades to suit your needs

- PepTivator Peptide Pools – research grade, with an average purity of 70%, combine state-of-the-art peptide production and purification with broadest antigen choice.
- PepTivator Peptide Pools – premium grade come with peptides individually purified >80% and endotoxin tested. Generally, two convenient sizes for stimulation of 10⁸ or 10⁹ cells are available.
- MACS® GMP PepTivator Peptide Pools are ideally suited to be used towards the development of clinical applications. They are designed following the recommendations of United States Pharmacopeia, chapter <1043> on ancillary materials and are free of animal-, or virus-derived components. Product specifications are confirmed by batch-specific certificates of analysis.

Check out our tools for isolation and analysis of antigen-specific T cells

Once stimulated, viable antigen-specific T cells can be easily isolated using the unique MACS Cytokine Secretion Assays or the CD154 or CD137 MicroBead Kits. Cytokine production and secretion of activated T cells can be measured using the Rapid Cytokine Inspector or MACSPlex Cytokine Kits.

In addition, our innovative Vio® Dyes and REAfinity™ Antibodies facilitate reproducible cell analysis.

Visit miltenyibiotec.com/peptivator for the complete range of PepTivator Peptide Pools and detailed information on quality grades and sizes.



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Available antigens

Antigens from infectious disease

AdV	Select*, AdV-5 hexon* and penton
BKV	Large T antigen*; small T antigen; capsid proteins VP1*, VP2
CMV	IE-1, pp65*
Dengue virus type 2	Capsid protein C; envelope proteins E1, E2; glycoprotein M; non-structural proteins NS1, NS2a
Dengue virus type 4	Non-structural protein NS2a
EBV	BZLF1, EBNA-1*, Select* LMP1, LMP2A, BMLF1, BRLF1
HCV1a and 1b	Core protein, serine protease NS3, non-structural proteins NS4, NS5
HHV	Envelope glycoprotein D
HPV16 and HPV18	E6 protein*, E7 protein*
Influenza A (H1N1) virus	MP1, MP2, HA, NA, NP
JCV	Large T antigen; small T antigen; capsid proteins VP1, VP2, VP3
RSV	Nucleoprotein
SARS-CoV-2	Select*, spike protein, nucleoprotein, membrane protein; various mutation pools covering mutated regions of SARS-CoV-2 variants
Zika virus	Capsid protein C; envelope proteins E1-2, E3; glycoprotein M; non-structural protein NS1
<i>Aspergillus fumigatus</i>	Catalase B, crf1, f 22, Gel1, pmp20, SHMT, SOD
<i>Bacillus afzelii</i>	BmpA, bmpB, ospA, ospB, ospC

Tumor-associated antigens

Melanoma	Select*, gp100/Pmel 17, Melan-A/MART-1, MAGE-A1, MAGE-A3*, MAGE-A4
Other	NY-ESO-1*, PAP, survivin 1*, tyrosinase, WT1*, PRAME*, PSA, prostein, PSCA, PSMA, ROR1, STEAP1, TERT, mucin-1*

Antigens associated with autoimmunity

Various	CHI3L2, desmoglein, GAD65, insulin, MBP (isoform 1, isoform 5), Mog, ovalbumin, PLP, IA-2, aquaporin-4
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Positive control

CEF MHC Class I	HCMV, EBV, Influenza
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*also available as MACS GMP PepTivator Peptide Pool.