

Materials List for:

Overlapping Peptide Library to Map Qa-1 Epitopes in a Protein

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URL: <https://www.jove.com/video/56401>

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Materials

Name	Company	Catalog Number	Comments
The protein to be analyzed	N/A	N/A	Sequence of the protein can be obtained from NCBI
Dimethyl sulfoxide (DMSO)	Sigma-Aldrich	Cat#: D2650 SIGMA	DMSO should be sterile and cell culture tested.
K ^b -D ^b mice	The Lackson Laboratory	Stock#: 019995	We used Taconic H2-K ^b H2-D ^b double knockout mice (Cat#: 4215-F and 4215-M) which however are not available anymore.
AIM V Serum Free Medium	ThermoFisher Scientific	Cat#: 12055091	
2-mercaptoethanol	ThermoFisher Scientific	Cat#: 21985023	
Sodium pyruvate	ThermoFisher Scientific	Cat#: 11360070	
Nonessential Amino Acids	ThermoFisher Scientific	Cat#: 11140076	
Dynabeads CD8 Positive Isolation Kit	ThermoFisher Scientific	Cat#: 11333D	
Bio-Gel P-100	Bio-Rad	Cat#: 150-4171	
Phosphate Balanced Solution (PBS)	ThermoFisher Scientific	Cat#: 20012027	
Trasfer pipette	Globe Scientific	Mfg#: 137238	
Murine M-CSF	PeproTech	Cat#: 315-02	
48-well tissue culture plates	USA Scientific	Cat#: CC7682-7548	
Corning Costar TC-treated Multiple well Plates, 96-well, V-shaped bottom	Sigma-Aldrich	Cat#: Z372129 Sigma	
1ml deep 06-well PP plate, sterile	USA Scientific	Item#: 1896-1110	
Recombinant murine IL-2	PeproTech	Cat#: 212-12	
Recombinant murine IL-7	PeproTech	Cat#: 217-17	
Capture anti-IFN-γ antibody	BD Biosciences	Cat#: 551881	
ELISPOT plate	Sigma-Aldrich	Cat#: S2EM004M99	
C1R	ATCC	Cat#: ATCC CRL-1993	
C1R.Qa-1 ^b			Custom made (GenBank access#: NM_010398.3)
Qa-1 lentiviral vector	GeneCopoeia	Product#: Mm02955	
Detection anti-IFN-γ antibody	BD Biosciences	Cat#: 551881	
Tween20	Sigma-Aldrich	Cat#: P9416	
Streptavidin-HRP	BD Biosciences	Cat#: BD557630	
AEC substrate	BD Biosciences	Cat#: 551951	
ImmunoSpot Analyzer	ImmunoSpot		Any immunoSpot analyzer should work for this purpose.