

Materials List for

# Evaluation of Controlled T Cell Activation with a Photoactivatable Peptide MHC

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URL: <https://www.jove.com/video/21880>

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## Materials

Name	Company	Catalog Number	Comments
Nunc Lab-Tek Chambered Coverglass	Thermofischer Scientific	155361	
Poly-L-lysine hydrobromide	Sigma-Aldrich	P2636	Will need to make Biotinylated Poly-L-Lysine
EZ-Link NHS-Biotin	Thermofischer Scientific	20217	Will need to make Biotinylated Poly-L-Lysine
Streptavidin	Thermofischer Scientific	434301	
BirA-500: BirA biotin-protein ligase standard reaction kit	Avidity	BirA500	Will be used to biotinylate proteins
Biotinylated Hb I-EK			For protein folding, see reference 6. For biotinylation, use BirA kit
Biotinylated NPE-MCC I-EK	Anaspec		Custom NPE-MCC (HANERADLIAYL-K(Nvoc)-QATKOH) can be purchased from Anaspec
Biotinylated $\alpha$ H2-Kk antibody	BD Biosciences	553591	
Biotinylated NPE-OVA H2-Kb	Anaspec		Custom NPE-OVA (H-SIINFE-K(Nvoc)-L-OH) can be purchased from Anaspec
Biotinylated KAVY H2-Db	Anaspec		Custom synthesized protein (KAVYDFATL) can be purchased from Anaspec
Biotinylated ICAM1			For protein folding, see reference in protocol. For biotinylation, use BirA kit
Hand held UV lamp	UVP	UVGL-25	Lamp is held < 1 cm from the sample. 30 s of 365 light is sufficient for detectable decaging, 20 min for quantitative decaging.
Olympus IX-81 OMAC TIRF system.	Olympus		Additional information about the imaging system can be found in Figure 6
Mosaic digital diaphragm	Andor		
Slidebook software	Intelligent Imaging Innovations		