

Materials List for:

Expansion, Purification, and Functional Assessment of Human Peripheral Blood NK Cells

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Materials

Name	Company	Catalog Number	Comments
NK Cell Expansion and Activation Media (NKEM)			
90% RPMI 1640	Cellgro		
10% Fetal Bovine Serum	Gibco		
1x Penicillin / Streptomycin	Cellgro		
1x L-Glutamine	Gibco		Filter Sterilize media before use.
50 U/ mL IL2	Proleukin, Novartis Vaccines and Diagnostics, Inc)		Diluted from a 200 IU/μl stock. Add IL2 to desired amount of media just before use each time.
Name	Company	Catalog Number	Comments
PBMC and NK Cell Isolation			
Ficoll-Paque	GE Healthcare		
Alsever's solution	Sigma)		
RosetteSep Human NK Cell Enrichment Cocktail	Stemcell Technologies)		
Name	Company	Catalog Number	Comments
NK Cell Cytotoxicity Assay			
Calcein-AM	Invitrogen		
Name	Company	Catalog Number	Comments
Antibodies			
The list of antibodies used for NK cell phenotyping are listed in table below:			
Tube 1: (total volume 100)			
Antibody: Isotype FITC	BD Pharmingen	555748	Volume: 5
Antibody: Isotype FITC	BD Pharmingen	555749	Volume: 5
Antibody: Isotype FITC	BD Pharmingen	557224	Volume: 5
Antibody: Isotype FITC	BD Pharmingen	340442	Volume: 5
Antibody: FACS Buffer	BD Pharmingen		Volume: 80
Tube 2: (total volume 100)			
Antibody: CD56 FITC	BD Pharmingen	340410	Volume: 5
Antibody: NKp30 PE	BD Pharmingen	558407	Volume: 5
Antibody: NKp44 PE	BD Pharmingen	558563	Volume: 5

Antibody: NKp46 PE	BD Pharmingen	557991	Volume: 5
Antibody: CD3 PE-Cy5	BD Pharmingen	555341	Volume: 5
Antibody: CD16 Alexa 647	BD Pharmingen	557710	Volume: 5
Antibody: FACS Buffer	BD Pharmingen		Volume: 70
Tube 3: (total volume 100)			
Antibody: CD56 FITC	BD Pharmingen	340410	Volume: 5
Antibody: KIR2DL1 PE	R&D Systems	FAB1844P	Volume: 5
Antibody: KIR2DL2/3 PE	Miltenyi Biotec	130-092-618	Volume: 5
Antibody: KIR3DL1 PE	R&D Systems	FAB12251P	Volume: 5
Antibody: CD3 PE-Cy5	BD Pharmingen	555341	Volume: 5
Antibody: NKG2D APC	BD Pharmingen	558071	Volume: 5
Antibody: FACS Buffer	BD Pharmingen		Volume: 70
Tube 4: (total volume 100)			
Antibody: CD56 FITC	BD Pharmingen	340410	Volume: 5
Antibody: CD11b PE	BD Pharmingen	555388	Volume: 5
Antibody: CD3 PE-Cy5	BD Pharmingen	555341	Volume: 5
Antibody: CD27 APC	BD Pharmingen	558664	Volume: 5
Antibody: FACS Buffer	BD Pharmingen		Volume: 80
Tube 5: (total volume 100)			
Antibody: CD56 FITC	BD Pharmingen	340410	Volume: 5
Antibody: CD266 (DNAM-1) PE	BD Pharmingen	559789	Volume: 5
Antibody: CD3 PE-Cy5	BD Pharmingen	555341	Volume: 5
Antibody: CD160 Alexa647	eBiosciences	51-1609-42	Volume: 5
Antibody: FACS Buffer	BD Pharmingen		Volume: 80
Tube 6: (total volume 100)			
Antibody: CD56 FITC	BD Pharmingen	340410	Volume: 5
Antibody: CD244 (2B4) PE	BD Pharmingen	550816	Volume: 5
Antibody: CD3 PE-Cy5	BD Pharmingen	555341	Volume: 5
Antibody: CD197 (CCR7) APC	eBiosciences	17-1979-42	Volume: 5
Antibody: FACS Buffer	BD Pharmingen		Volume: 80