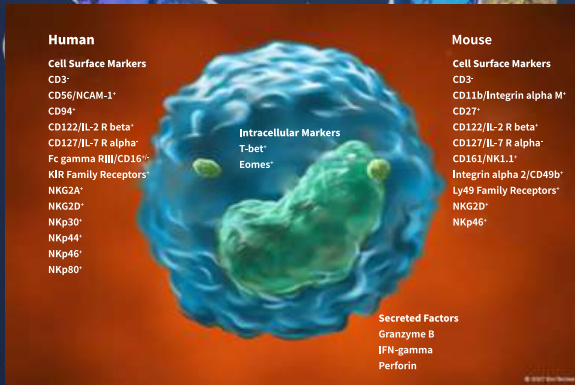


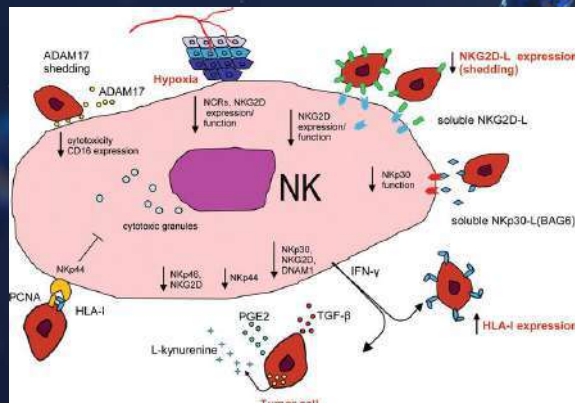
# NK Cell for Immuno-Oncology Research

**NK Cell Abs는 R&D Abs 중 베스트 셀링 아이템  
CAR-T 를 넘어 NK Cell therapy를 위한 연구 집중 !**



## R&D Ab만의 장점

- Fully Characterized Abs
- Quantikine Quality based Abs
- Lyophilized-form으로 안정성 극대화
- NK cell factor Abs 다량 보유



Mechanisms of NK cell receptor dysregulation in tumors  
<http://dx.doi.org/10.5772/intechopen.69729>

Target	Species	Uncojugated Abs	Available Flow Cytometry
<b>Natural Cytotoxicity Receptors (NCR) &amp; Ligands</b>			
B7-H6	H	MAB7144 (FC)	APC, PE
NKp30	H	MAB1849 (FA, FC), MAB18491 (FA), AF1849 (WB)	APC, PE, Alexa Fluor 488
NKp44	H	MAB22491 (FA, FC), MAB2249 (WB), AF2249 (FA, WB)	APC, PE
NKp46/NCR1	H	MAB1850 (FA, FC, ICC/IF, WB) AF1850 (ICC/IF, WB)	APC, Fluorescein, PE
	M	MAB22252 (FC), AF2225 (FA, FC, WB), MAB2225 (WB)	APC, Fluorescein, PE, PerCP, Alexa Fluor 488, Alexa Fluor 700
NKp80/KLRF1	H	MAB1900 (FC), AF1900 (FC, WB)	APC, PE
<b>NKG2 Family Receptors</b>			
CD94	H	MAB1058 (B/N, FC)	APC, Fluorescein, PE
NKG2A	H	MAB1059 (FC)	APC, PE, PerCP, Alexa Fluor 700
	M	MAB6867 (FC)	APC, PE, Alexa Fluor 488
NKG2C	H	MAB138 (FC), MAB1381 (FC)	APC, PE, PerCP, Alexa Fluor 488, Alexa Fluor 647, Alexa Fluor 700
<b>Killer Immunoglobulin-like Receptors (KIRs)</b>			
KIR pan/CD158	H	MAB1848 (FC)	APC, Fluorescein, PE
KIR2DL1/S5	H	MAB1844 (FC)	APC, Fluorescein, PE, PerCP, Alexa Fluor 488, Alexa Fluor 700
KIR2DL3	H	MAB2014 (FC)	APC, Fluorescein, PE, PerCP
KIR2DL4	H	MAB2238 (FA, FC)	APC, Fluorescein, PE
KIR3DL1	H	MAB12251 (FA, FC), MAB 1225 (B/N, FC)	APC, Fluorescein, PE
KIR3DL2	H	MAB2878 (FC)	APC, PE, PerCP, Alexa Fluor 700
KIR2DS4	H	MAB1847 (FC, WB)	APC, PE, PerCP, Alexa Fluor 488
<b>NKG2D and NKG2D Ligands</b>			
NKG2D	H	MAB139 (B/N, FA, FC, WB)	APC, PE, PerCP, Alexa Fluor 488, Alexa Fluor 700
	M	MAB1547 (B/N, FC, WB)	APC, Fluorescein, PE
H60	M	MAB1155 (B/N, FC, WB)	APC, PE, Alexa Fluor 488, Alexa Fluor 700
MICA	H	MAB1300 (B/N, FC, WB)	APC, PE, Alexa Fluor 488
MICB	H	MAB1599 (FC, WB)	APC, PE, PerCP, Alexa Fluor 488, Alexa Fluor 700
MICA/B	H	MAB13001 (B/N, FC, IHC)	APC, PE, Alexa Fluor 488, Alexa Fluor 700
Rae-1 Pan	M	MAB17582 (FC)	APC, Fluorescein, PE, PerCP, Alexa Fluor 700
Rae-1 α/β/γ	M	MAB1758 (B/N, FC)	APC, Alexa Fluor 488
Rae-1 ε	M	MAB1135 (B/N, FC)	APC, PE
ULBP-1	H	MAB1380 (B/N, FC)	APC, PE, PerCP, Alexa Fluor 488
	M	MAB2588 (FC)	APC, PE, PerCP, Alexa Fluor 700
ULBP-2/5/6	H	MAB1298 (B/N, FC)	APC, Fluorescein, PerCP
ULBP-3	H	MAB1517 (B/N, FC)	APC, PE
ULBP-4/RAET1E	H	MAB6285 (FC, IHC, WB)	APC, PE



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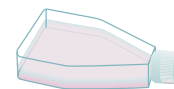
## 02 Culture & Isolation tools

Culture Product		
Name	Cat #	제조사
MagCelect NK Cell Isolation Kit	MAGH109	R&D
CellXVivo Human NK Cell Expansion Kit	CDK015	R&D
ExCellerate Human NK Cell Expansion Media	CCM032	R&D

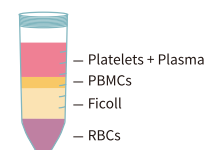
Cytokine		Prodot	
Name	Cat #	제조사	Cat #
IL-2	202-IL	R&D	PRD202-GMP
IL-12	219-IL	R&D	
IL-15	247-ILB	R&D	PRD247-GMP
IL-18	9124-IL	R&D	
IL-21	8879-IL	R&D	



**Coat** 75 cm<sup>2</sup> flask with NK Cell Expander 1 (1X).



**Isolate** PBMCs from human blood.

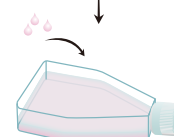


**Perform** a cell count.



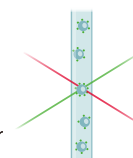
**Suspend**  $1 \times 10^6$  PBMCs/mL in Human NK Cell Expansion Media.

**Culture** the cells in the pre-coated 75 cm<sup>2</sup> flask for a total of 14 days.



**Verify** expanded NK cells by analyzing NK cell marker expression via flow cytometry (**optional**).

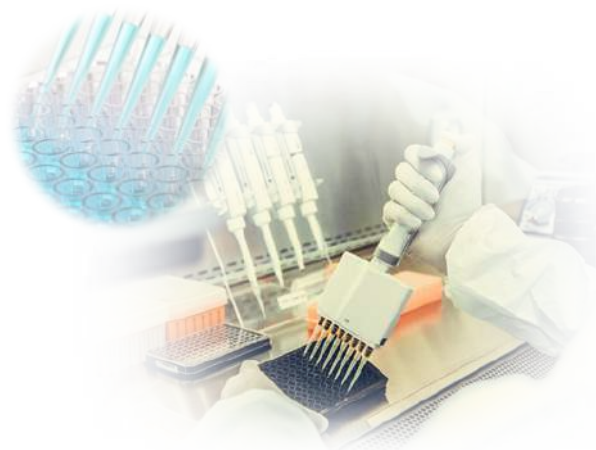
**NK cells** are ready to be used for downstream applications.



## 03 Analysis tools

Molecule	Quantikine ELISA	DuoSet ELISA	ELISpot
IFN-gamma	○	○	○
TNF-alpha	○	○	○
IL-5	○	○	
IL-10	○	○	○
IL-13	○	○	
TGF-beta	○	○	
IL-6	○	○	
GM-CSF	○	○	○
Granzyme B		○	○

Proteome profiler (Antibody Array)	
Name	Cat #
Proteome Profiler Human Phospho-Immunoreceptor Array Kit	ARY004B
Proteome Profiler Human XL Cytokine Array Kit	ARY022B
Proteome Profiler Human XL Oncology Array	ARY026
Proteome Profiler Human Angiogenesis Array Kit	ARY007
Proteome Profiler Human Chemokine Array Kit	ARY017



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