

NK & NKT Cell Markers

NEW Tools for NK & NKT Cell Research

Natural Killer Cells (NK)

Natural Killer (NK) cells are important effector lymphocytes of innate immunity that exhibit cytolytic activity against a variety of allogeneic targets in a non-specific, contact-dependent, non-phagocytic process which does not require prior sensitization to antigen. NK cells share several properties with conventional cytotoxic T cells (CTL), including similar mechanisms for cytolysis. Cytolytic activity is mediated by secretion of pore-forming proteins such as Granzyme B and Perforin, serine proteases and other proteins. Their cytotoxic activity is positively regulated by IL-2, IL-15 and interferons and is diminished by prostaglandins and TGF- β .

Natural Killer T Cells (NKT)

Natural Killer T (NKT) cells represent a distinct lineage of T cells that express an invariant $\alpha\beta$ T cell receptor (TCR) and share a number of cell surface markers in common with NK cells. NKT cells are restricted by the non-polymorphic CD1d molecule and are activated by glycolipid antigens presented by CD1d. Expression of CD160 and Va24Ja18 TCR can be used for the identification of mouse and human NKT cells, respectively.

2010 | April

FEATURING

ANTIBODIES

- CD56 (h) **NEW**
- CD158a (KIR2DL1/S1) (h) **NEW**
- CD158f (KIR2DL5) (h) **NEW**
- CD160 (h, m) **NEW**
- Eomes (h, m) **NEW**
- Granzyme B (h, m)
- IL-21 (h, m) **NEW**
- NKp46 (m)
- Perforin (h, m)
- Va24Ja18 TCR (h)

RECOMBINANT PROTEINS

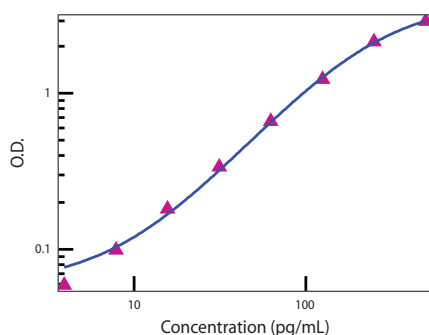
- IL-15/IL-15R (m) **NEW**

ELISA

- IL-15/IL-15R (m) **NEW**

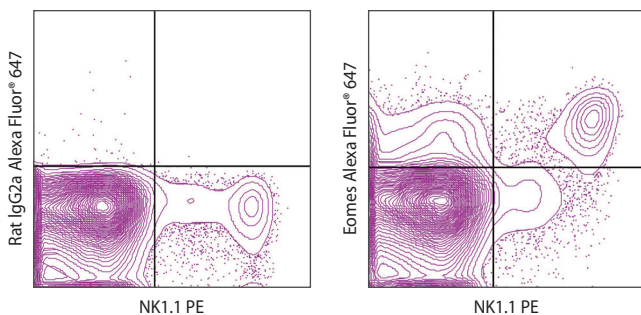
h=human, m=mouse

Mouse IL-15/IL-15R ELISA Ready-SET-Go![®]



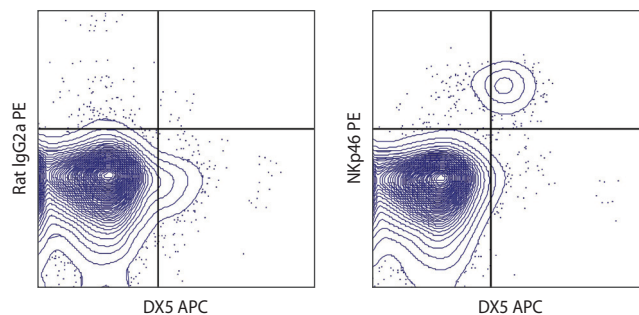
Mouse IL-15/IL-15R complex Ready-SET-Go![®] recombinant protein standard curve (cat. no. 88-7215).

Mouse Eomes



Surface staining of C57Bl/6 splenocytes with PE anti-mouse NK-1.1 (PK136) (cat. no. 12-5941) followed by intracellular staining with Alexa Fluor[®] 647 Rat IgG2a Isotype Control (cat. no. 51-4321) (left) or Alexa Fluor[®] 647 anti-mouse Eomes (Dan11mag) (cat. no. 51-4875) (right) using the Foxp3 Staining Buffer Set (cat. no. 00-5523). Total cells were used for analysis.

Mouse NKp46



Staining of C57Bl/6 splenocytes with APC anti-mouse pan-NK cells (DX5) (cat. no. 17-5971) and PE Rat IgG2a Isotype Control (cat. no. 12-4321) (left) or PE anti-mouse NKp46 (29A1.4) (cat. no. 12-3351) (right). Total viable cells were used for analysis.

NK & NKT Cell Markers

Mouse	Clone	Cat. No.	ELISA Ready-SET-Go! [®]	ELISPOT Ready-SET-Go! [®]	Recombinant	Carrier-free Recombinant	Single-use ELISA Standards (4 pack)	Polyclonal	Purified	Functional Grade™ Purified	Biotin	Functional Grade™ Biotin	eFluor [®] 450	eFluor [®] 605NC	eFluor [®] 650NC	FITC	Alexa Fluor [®] 488	PE	PE-Cy5	PerCP-eFluor [®] 710	PE-Cy7	PerCP-Cy5.5	APC	Alexa Fluor [®] 647	Alexa Fluor [®] 700	APC-eFluor [®] 780
CD160	eBioCNX46-3	1601							•	•								•								•
Eomes	Dan11mag	4875																•						•		
GP49 receptor	H1.1	5784																•						•		
Granzyme B	--	8022	•																							
	16G6	8822							•		•							•			•				•	
IL-15/IL-15R	--	8152			•	•																				
	--	7215	•																							
IL-21	--	8211			•	•																				
	--	7210		•																						
	--	8210	•																							
	FFA21	7211								•								•					•	•		
	mhalx21	7213																•						•		
IL-21R	eBio4A9	1219							•		•							•								
	--	6469						•																		
IL-27	--	8271			•	•																				
Ly108	eBio13G3-19D	1508							•	•	•							•								
NKp46	29A1.4	3351								•							•	•		•					•	
Perforin	eBio0MAK-D	9392							•								•	•					•			
Human	Clone	Cat. No.																								
CD56	CMSSB	0567							•												•					
CD158a (KIR2DL1/S1)	HP-MA4	1589																			•					
CD158f (KIR2DL5)	UP-R1	1588																•							•	
CD160	BY55	1609																								
CD244	eBioPP35	2449							•	•													•			
	eBioDM244	5837															•								•	
	eBioC1.7	5838							•	•	•							•								
CXCR1 (CD181)	eBio8F1-1-4	1819						•									•									
Eomes	WD1928	4877																							•	
Granulysin	eBioDH2 (DH2)	8828																•								
Granzyme B	--	8399	•																							
	GB11	8899																	•							
IL-15Ra	eBioJM7A4	7159							•								•	•								
IL-21	--	6465																								
	--	7216	•																							
	eBio3A3-N2	7219							•									•							•	
	--	8219			•	•	•																			
IL-27	--	8279			•	•																				
IL-27R	--	6481						•																		
p75/AIRM1	eBioQA79	5759							•		•							•								
Perforin	eBioBOR21	9993							•								•	•								
	dG9	9994							•								•	•		•						
Va24Ja18 TCR	6B11	5806							•									•		•						

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