

Human NKp30/NCR3 Alexa Fluor® 700-conjugated Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2615A Catalog Number: FAB18492N

100 µg

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human NKp30/NCR3 in direct ELISAs.		
Source	Recombinant Monoclonal Rabbit IgG Clone # 2615A		
Purification	Protein A or G purified from cell culture supernatant		
Immunogen	Mouse myeloma cell line NS0-derived human NKp30/NCR3 Leu19-Thr138 Accession # Q05D23		
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm		
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide.		
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.		

APPLICATIONS				
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.				
	Recommended Concentration	Sample		
Flow Cytometry	0.25-1 ug/10 ⁶ cells	Human PBMC		

PREPARATION AND STORAGE			
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.		
Stability & Storage	Protect from light. Do not freeze.		
	 12 months from date of receipt, 2 to 8 °C as supplied. 		

BACKGROUND

NKp30, along with NKp44 and NKp46, constitute a group of receptors termed "Natural Cytotoxicity Receptors" (1). These receptors play a major role in triggering NK-mediated killing of most tumor cells lines. NKp30 is a type I transmembrane protein having a single extracellular V-like immunoglobulin domain (2). A physical association with the ITAM-bearing accessory protein, CD3ζ, occurs via a charged residue in the NKp30 transmembrane domain. Ligation of NKp30 with a specific antibody results in phosphorylation of CD3ζ (3). NKp30 is expressed on both resting and activated NK cells of the CD56^{dim}, CD16⁺ subset that account for more that 85% of NK cells found in peripheral blood and spleen (4). NKp30 is absent from the CD56^{bright}, CD16⁻ subset that constitutes the majority of NK cells in lymph node and tonsil, however, its expression is up-regulated in these cells upon IL-2 activation (4). Studies with neutralizing antibodies reveal that NKp30 is partially responsible for triggering lytic activity against several tumor cell types and that it is the main receptor responsible for NK-mediated lysis of immature dendritic cells (2, 5). The liqand(s) recognized by NKp30 has not been described.

References:

- 1. Moretta, L. and A. Moretta (2004) EMBO J. 23:255.
- 2. Pende, D. et al. (1999) J. Exp. Med. 190:1505.
- 3. Augugliaro, R. et al. (2003) Eur. J. Immunol. 33:1235.
- 4. Ferlazzo, G. et al. (2004) J. Immunol. 172:1455
- 5. Ferlazzo, G. et al. (2002) J. Exp. Med. 195:343.

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