

Human IL-15R alpha Antibody

Recombinant Monoclonal Rabbit IgG Clone # 2639B Catalog Number: MAB10900

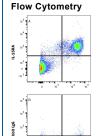
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human IL-15R alpha in direct ELISAs.
Source	Recombinant Monoclonal Rabbit IgG Clone # 2639B
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Mouse myeloma cell line, NS0-derived human IL-15R alpha Met1-Lys173 Accession # NP_751951
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

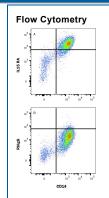
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25 µg/10 ⁶ cells	Human PBMC, untreated or treated with LPS (100 ng/ml) and recombinant human IFN gamma (Catalog # 285-IF, 25 ng/ml) for 24 hour

DATA



Detection of IL-15R alpha in Human PBMC Monocytes by Flow Cytometry. Human PBMC were stained with (A) Rabbit Anti-Human IL-15R alpha Monoclonal Antibody (Catalog # MAB10900) or (B) Rabbit IgG Control (Catalog # MAB1050), followed by APC-conjugated anti-Rabbit IgG secondary antibody (Catalog # F0111) and Mouse Anti-Human CD14 PE-conjugated Monoclonal Antibody (Catalog # FAB3832P). Staining was performed using our Staining Membrane-associated Proteins protocol.



Detection of IL-15R alpha in **Human PBMC Monocytes by** Flow Cytometry. Human PBMC were treated with LPS (100 ng/ml) and recombinant human IFN gamma (Catalog # 285-IF; 25 ng/ml) for 24 hours, then stained with (A) Rabbit Anti-Human IL-15R alpha Monoclonal Antibody (Catalog # MAB10900) or (B) Rabbit IgG Control (Catalog # MAB1050), followed by APCconjugated anti-Rabbit IgG secondary antibody (Catalog # F0111) and Mouse Anti-Human CD14 PE-conjugated Monoclonal Antibody (Catalog # FAB3832P). Staining was performed using our Staining Membrane-associated Proteins protocol.

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.	

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BACKGROUND

Interleukin 15 receptor alpha (IL-15 R α) is a high affinity receptor that specifically binds IL-15 with high affinity and associates as a heterotrimer with the IL-2 receptors beta and gamma subunits to initiate signal transduction. IL-15 R α is expressed on a wide variety of T cells and B cells as well as non-lymphoid cells. IL-15 R α is a 58-60 kDa protein that shares structural similarities to the IL-2 R α protein. IL-15 R α and IL-2 R α genes also share similar intron-exon organization and are closely linked on human chromosome 10p14-p15. Human IL-15 R α shares 45% amino acid (aa) homology with the mouse form of the receptor. Eight isoforms of IL-15 R α mRNA have been identified resulting from alternative splicing events involving different exons. The exclusion of exon 2 results in an IL-15 R α isoform that does not bind IL-15. Human IL-15 R α DE3 cDNA encodes a 267 aa protein that contains a 30 aa signal sequence, a 175 aa extracellular region containing one N-linked glycosylation site, a 21 aa transmembrane domain and a 41 aa cytoplasmic tail. Signaling of IL-15 can occur in one of three ways; through the heterotrimeric complex of IL-15 R α , IL-2 R β , and IL-2 R γ _C, through the heterodimeric complex of IL-2 receptors beta and gamma common, through a novel 60-65 kDa IL-15 R α has been reported to antagonize the TNF- α -mediated apoptosis in fibroblasts by competing with TNF RI for TRAF2 binding.

References:

- 1. Anderson, D.M. et al. (1995) J. Biol. Chem. 270:29862.
- 2. Bulfone-Paus, S. et al. (1999) FASEB 13:1575.
- 3. Waldemann, T.A. and Y. Tagaya (1999) Ann. Rev. Immunol. 17:19.
- 4. Dubois, S. et al. (1999) J. Biol. Chem. 274:26978.

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