

Mouse IL-15 Alexa Fluor® 594-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 201136 Catalog Number: FAB447T

100 µc

DESCRIPTION		
Species Reactivity	Mouse	
Specificity	Detects mouse IL-15 in ELISAs and Western blots. Does not cross-react with recombinant mouse (rm) IL-2, rhIL-15, or rmIL-21.	
Source	Monoclonal Rat IgG _{2A} Clone # 201136	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	E. coli-derived recombinant mouse IL-15 Asn49-Ser162 Accession # P48346	
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm	
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide	
	*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Shee (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.			
ELISA Capture (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.		
ELISA Detection (Matched Antibody Pair)	Optimal dilution of this antibody should be experimentally determined.		
Western Blot	Optimal dilution of this antibody should be experimentally determined.		

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

Interleukin 15 (IL-15) is a widely expressed 14 kDa cytokine that is structurally and functionally related to IL-2 (1 - 3). Mature mouse IL-15 shares 70% and 96% amino acid sequence identity with human and rat IL-15, respectively. Alternate splicing generates isoforms of IL-15 with either a long or short signal peptide (LSP or SSP), and the SSP isoform is retained intracellularly (4). IL-15 binds with high affinity to IL-15 R α (5). It binds with lower affinity to a complex of IL-2 R β and the common gamma chain (yc) which are also subunits of the IL-2 receptor complex (1, 6). IL-15 associates with IL-15 R α in the endoplasmic reticulum, and this complex is expressed on the cell surface (7, 8). The dominant mechanism of IL-15 action is known as transpresentation in which IL-15 R α are coordinately expressed on the surface of one cell and interact with complexes of IL-2 R β /yc on adjacent cells (9). This enables cells to respond to IL-15 even if they do not express IL-15 R α (8, 10). Soluble IL-15-binding forms of IL-15 R α can be generated by proteolytic shedding or alternate splicing (11 - 13). These molecules retain the ability to bind tightly to IL-15 and can either inhibit or augment IL-15 function (5, 12, 13). Consistent with its shared use of IL-2 receptor subunits, IL-15 induces IL-2-like effects in lymphocyte development and homeostasis (3). It is particularly important for the maintenance and activation of NK cells and CD8+ memory T cells (3). IL-15 also exerts pleiotropic effects on other hematopoietic cells and non-immune cells (2). Ligation of membrane-associated IL-15/IL-15 R α expressing cells (14, 15).

PRODUCT SPECIFIC NOTICES

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