

For Research Use Only

Anti-Mouse IL-2 Rabbit Recombinant Antibody, PBS Only

Catalog Number: 98055-1-PBS



Basic Information

Catalog Number: 98055-1-PBS	GenBank Accession Number: NM_008366	Purification Method: Protein A purification
Size: 1mg, 2mg/ml	GeneID (NCBI): 16183	CloneNo.: 240358A2
Source: Rabbit	UNIPROT ID: P04351	
Isotype: IgG	Full Name: interleukin 2	
	Calculated MW: 19 kDa	

Applications

Tested Applications:
FC (Intra), Sandwich ELISA, Indirect ELISA, Sample test

Species Specificity:
mouse

Product Information

98055-1-PBS targets IL-2 as part of a matched antibody pair.

MP00533-3: 98055-1-PBS capture and 83547-1-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

Background Information

Interleukin-2 (IL-2) is a four-helix bundle, type I cytokine that functions as a growth factor for a wide range of leukocytes. In the immune system, IL-2 is essential for immune homeostasis, normal T regulatory cell function, and self-tolerance. It regulates immune cell homeostasis and has been used to treat a range of disorders including cancer and autoimmune disease. IL-2 signals through heterodimerization of the IL-2R β and IL-2R γ receptor subunits (PMID: 25992858, 24907378, 15034008, 17981641).

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS Only

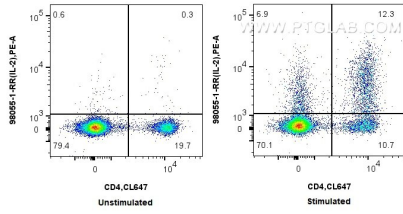
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

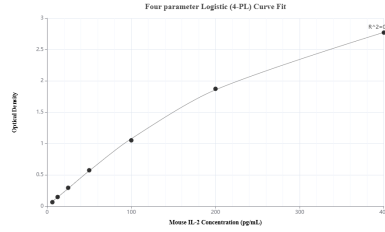
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

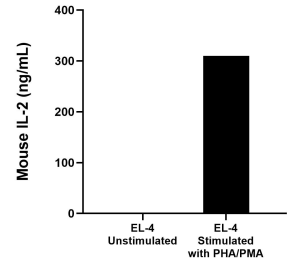
Selected Validation Data



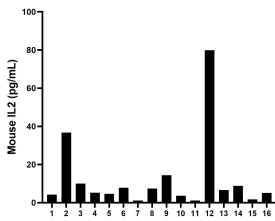
1x10⁶ untreated or PMA, Ionomycin and Brefeldin A treated mouse splenocytes were intracellularly stained with 0.25 ug Anti-Mouse IL-2 Rabbit Recombinant Antibody (98055-1-RR, Clone: 240358A2) and PE-conjugated Goat Anti-Rabbit IgG. Cells were then stained with CoraLite® Plus 647 Anti-Mouse CD4. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 98055-1-



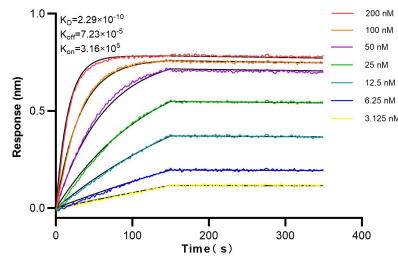
Sandwich ELISA standard curve of MP00533-3, mouse IL-2 Recombinant Matched Antibody Pair - PBS only. 98055-1-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg0762. 83547-1-PBS was HRP conjugated as the detection antibody. Range: 6.25-400 pg/mL



EL-4 mouse lymphoblast cells (1 x 10⁶ cells/mL) were cultured for 3 days in DMEM supplemented with 10% fetal bovine serum and stimulated with 10 µg/mL PHA and 10 ng/mL PMA. The mean mouse IL-2 concentration was determined to be 16.1 pg/mL in unstimulated EL-4, 309.9 ng/mL in PHA and PMA stimulated EL-4 supernatant.



Serum of sixteen mice was measured. were measured. The mouse IL-2 concentration was determined to be 2.27 pg/mL with a range of 1.1-79.9 pg/mL



Biolayer interferometry (BLI) kinetic assays of 98055-1-RR against Mouse IL-2 were performed. The affinity constant is 0.229 nM.