

For Research Use Only

Anti-Mouse IL-13RA2 Rabbit Recombinant Antibody, PBS Only (Capture)

Catalog Number: 98407-3-PBS



Basic Information

Catalog Number:	98407-3-PBS	GenBank Accession Number:	NM_008356.4	Purification Method:	Protein A purification
Size:	1mg, 2 mg/ml	GeneID (NCBI):	16165	CloneNo.:	242742C4
Source:	Rabbit	UNIPROT ID:	O88786-1		
Isotype:	IgG	Full Name:	interleukin 13 receptor, alpha 2		
Immunogen Catalog Number:	EG3118	Calculated MW:	44 kDa		

Applications

Tested Applications:
FC, Sandwich ELISA, Indirect ELISA, Sample test

Species Specificity:
mouse

Product Information

98407-3-PBS targets IL-13RA2 as part of a matched antibody pair:

MP02013-3: 98407-3-PBS capture and 85631-5-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

IL-13RA2, also named as IL-13R and CD213a2, belongs to the type I cytokine receptor family. It binds as a monomer with high affinity to interleukin-13 (IL13), but not to interleukin-4 (IL4). IL-13RA2 lacks the cytoplasmic domain for signaling, indicating that it acts as a decoy receptor. IL-13RA2 gene polymorphisms have been associated with systemic sclerosis (PMID: 16981293). Overexpression of IL-13RA2 gene has been reported in several types of cancer, including melanoma, lung cancer, and brain tumor, which makes it a potential immunotherapeutic target (PMID: 19895199; 24970476; 24021875).

Storage

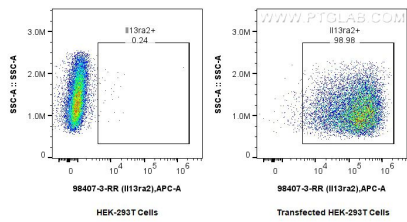
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

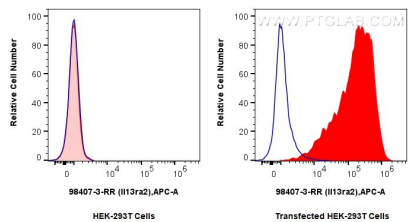
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

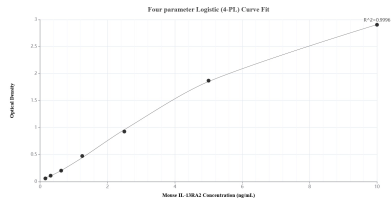
Selected Validation Data



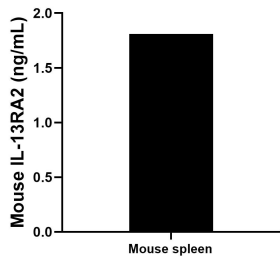
1x10⁶ HEK-293T cells (left) and IL-13RA2-transfected HEK-293T cells (right) were surface stained with 0.25 ug Anti-Mouse IL-13RA2 Rabbit RecAb (98407-3-RR, Clone: 242742C4) and APC-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed. This data was developed using the same antibody clone with 98407-3-PBS in a different storage buffer formulation.



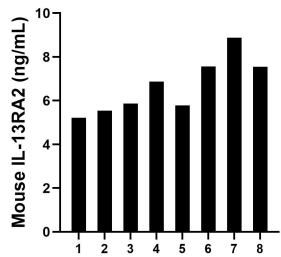
1x10⁶ HEK-293T cells (left) and IL-13RA2-transfected HEK-293T cells (right) were surface stained with 0.25 ug Anti-Mouse IL-13RA2 Rabbit RecAb (98407-3-RR, Clone: 242742C4) (red) or 0.25 ug Rabbit IgG Isotype Control RecAb (98136-2-RR, Clone: 240953A11) (blue), and APC-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were not fixed. This data was developed using the same antibody clone with 98407-3-PBS in a different storage buffer formulation.



Sandwich ELISA standard curve of MP02013-3, Mouse IL-13RA2 Recombinant Matched Antibody Pair - PBS only. 98407-3-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Eg3118. 85631-5-PBS was HRP conjugated as the detection antibody. Range: 0.156-10 ng/mL



The mean IL-13RA2 concentration was determined to be 1.81 ng/mL in mouse spleen tissue homogenates extract based on a 2.30 mg/mL extract load.



Serum of eight mice was measured. The IL-13RA2 concentration of detected samples was determined to be 6.65 ng/mL with a range of 5.21-8.88 ng/mL.