

For Research Use Only

IL-4 Monoclonal antibody

Catalog Number: 66142-1-Ig

Featured Product

57 Publications



Basic Information

Catalog Number:

66142-1-Ig

Size:

150ul, Concentration: 1264 ug/ml by Nanodrop and 740 ug/ml by Bradford method using BSA as the standard;

Source:

Mouse

Isotype:

IgG2a

Immunogen Catalog Number:

AG9940

GenBank Accession Number:

BC070123

GeneID (NCBI):

3565

UNIPROT ID:

P05112

Full Name:

interleukin 4

Calculated MW:

153 aa, 17 kDa

Observed MW:

18 kDa

Purification Method:

Protein A purification

CloneNo.:

1G2C5

Recommended Dilutions:

WB 1:500-1:2000

IHC 1:20-1:200

IF-P 1:200-1:800

Applications

Tested Applications:

WB, IHC, IF-P, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF, ELISA

Species Specificity:

human, pig

Cited Species:

human, mouse, rat, pig, bovine

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: Jurkat cells,

IHC: human tonsillitis tissue,

IF-P: human breast cancer tissue,

Background Information

IL4 is a cytokine produced by CD4+ T cells in response to helminthes and other extracellular parasites. It promotes the proliferation and differentiation of antigen presenting cells. IL4 also plays a pivotal role in antibody isotype switching and stimulates the production of IgE. This cytokine has been applied in the treatment of autoimmune disorder like multiple myeloma, cancer, psoriasis, and arthritis. IL4 has also been extensively applied to inhibit detrimental effect of Th1. It may promote the growth of epithelial tumors by mediating increased proliferation and survival.

Notable Publications

Author	Pubmed ID	Journal	Application
Teresa W-M Fan	36150727	J Immunol	
YuanPing Hai	36128805	Thyroid	IHC
Xuemei Zong	31515743	Transl Stroke Res	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

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)

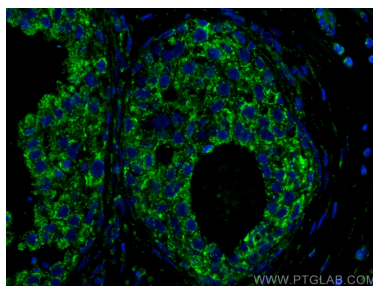
E: proteintech@ptglab.com
W: ptglab.com

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

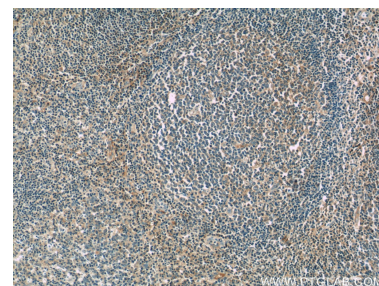
Selected Validation Data



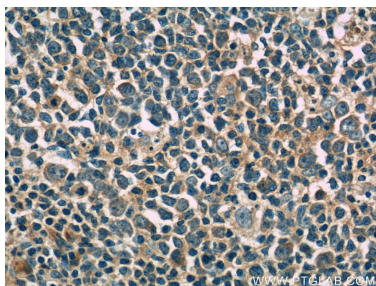
Jurkat cells were subjected to SDS PAGE followed by western blot with 66142-1-Ig (IL-4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



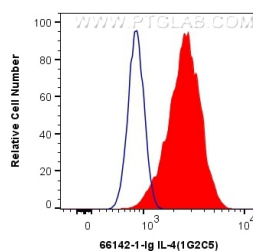
Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using IL-4 antibody (66142-1-Ig, Clone: 1G2C5) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66142-1-Ig (IL-4 antibody at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66142-1-Ig (IL-4 antibody at dilution of 1:50 (under 40x lens).



1X10⁶ Ramos cells were intracellularly stained with 0.4 ug Anti-Human IL-4 (66142-1-Ig, Clone:1G2C5) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2a Isotype Control (66360-2-Ig, Clone: K11A1B2A2) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).