

For Research Use Only

IL-4 Monoclonal antibody

Catalog Number: 66142-1-Ig **20 Publications**



Basic Information

Catalog Number: 66142-1-Ig	GenBank Accession Number: BC070123	Purification Method: Protein G purification
Size: 150ul , Concentration: 740 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3565	CloneNo.: 1G2C5
Source: Mouse	Full Name: interleukin 4	Recommended Dilutions: WB 1:500-1:2000 IHC 1:20-1:200 IF 1:200-1:800
Isotype: IgG2a	Calculated MW: 153 aa, 17 kDa	
Immunogen Catalog Number: AG9940	Observed MW: 18 kDa	

Applications

Tested Applications: IF, IHC, WB, ELISA	Positive Controls:
Cited Applications: ELISA, IF, IHC, WB	WB: Jurkat cells,
Species Specificity: human, pig	IHC: human tonsillitis tissue,
Cited Species: human, mouse, rat	IF: human breast cancer tissue,
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

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
Xuemei Zong	31515743	Transl Stroke Res	WB
Luodan Yang	29056360	Exp Neurol	ELISA
Zhuangqi Ji	33093886	Exp Ther Med	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

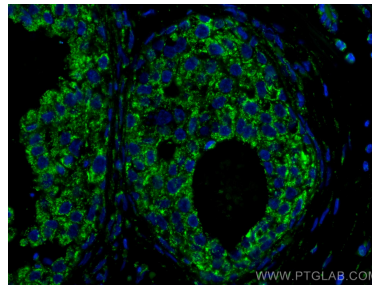
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

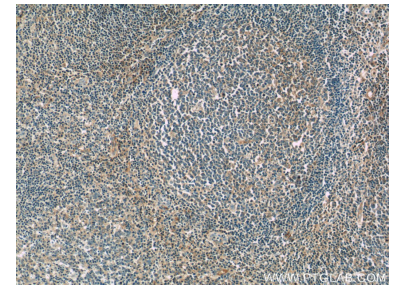
Selected Validation Data



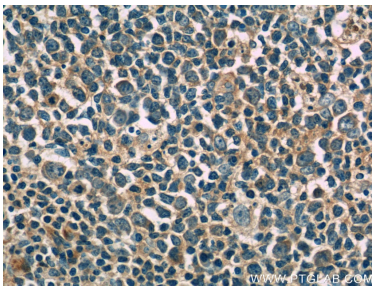
Jurkat cells were subjected to SDS PAGE followed by western blot with 66142-1-Ig (IL-4 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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).