

For Research Use Only

IL-9 Monoclonal antibody

Catalog Number: 66144-1-Ig 5 Publications



Basic Information

Catalog Number: 66144-1-Ig	GenBank Accession Number: BC066284	Purification Method: Protein A purification
Size: 150ul , Concentration: 2400 ug/ml by Nanodrop and 1627 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 3578	CloneNo.: 1F3A11
Source: Mouse	UNIPROT ID: P15248	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:200-1:800 IF-P 1:200-1:800
Isotype: IgG2b	Full Name: interleukin 9	
Immunogen Catalog Number: AG21435	Calculated MW: 144 aa, 16 kDa	
	Observed MW: 19 kDa	

Applications

Tested Applications: WB, IHC, IF-P, ELISA	Positive Controls:
Cited Applications: WB, IHC, IF	WB : Recombinant protein, Recombinant protein
Species Specificity: human	IHC : human tonsillitis tissue,
Cited Species: human, mouse	IF-P : human tonsillitis 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

Interleukin 9 (IL-9) is a γ c-family cytokine that is highly produced by T-helper 9 (Th9) cells. IL-9 could promote the survival and activation of various cellular targets, including mast cells, B cells, T cells, and structural cells. Its expression is considered a hallmark of Th2-lineage cells. Primarily studied in Th2-type immunity, IL-9 was shown to be involved in asthma, allergy, and host defense against helminth infections. IL-9 also stimulates cell proliferation and prevents apoptosis. It functions through the interleukin 9 receptor (IL9R), which activates different signal transducer and activator (STAT) proteins and thus connects this cytokine to various biological processes.

Notable Publications

Author	Pubmed ID	Journal	Application
Yujun Sheng	33249782	FEBS Open Bio	WB
Tanfeng Zhou	39199394	Biomolecules	IHC,IF
Liang Yan	37641663	Clin Cosmet Investig Dermatol	IHC

Storage

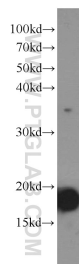
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

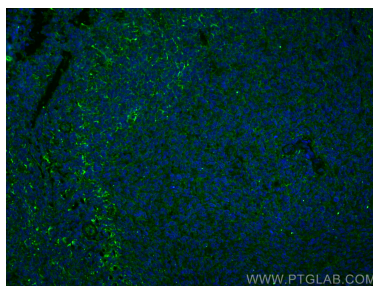
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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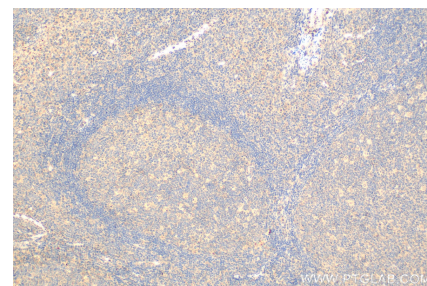
Selected Validation Data



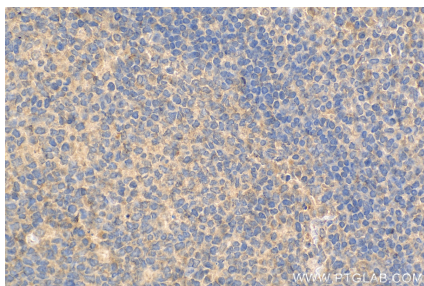
Recombinant protein were subjected to SDS PAGE followed by western blot with 66144-1-Ig (IL9 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed human tonsillitis tissue using IL-9 antibody (66144-1-Ig, Clone: 1F3A11) 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 66144-1-Ig (IL-9 antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66144-1-Ig (IL-9 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).