

# IL-4 Polyclonal Antibody, PeproTech®

Product Details	
Size	1 mg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Rabbit
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	E.coli-derived Recombinant Human IL-4
Form	Lyophilized
Concentration	0.1-1.0 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS
Contains	no preservative
Storage conditions	-20°C

Applications	Tested Dilution	Publications
Western Blot (WB)	0.1-0.2 µg/mL	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	-	1 Publication
ELISA (ELISA)	0.5-2.0 µg/mL	2 Publications
In vitro Assay (IV)	-	6 Publications
Miscellaneous PubMed (Misc)	-	2 Publications

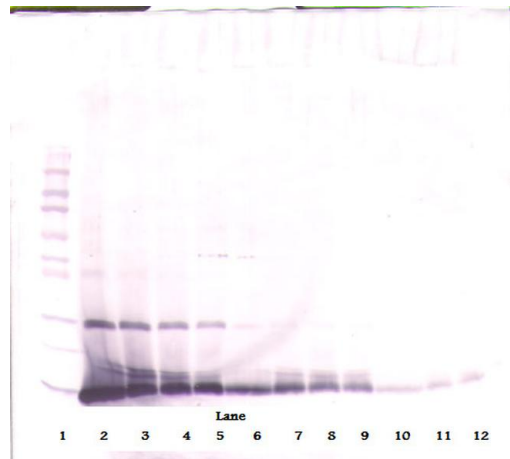
## Product Specific Information

AA Sequence of recombinant protein: MHKCDITLQE IIKTLNSLTE QKTLCTELTV TDIFAASKNT TEKETFCRAA TVLRQFYSHH EKDTRCLGAT AQQFHRHKQL IRFLKRLDRN LWGLAGLNSC PVKEANQSTL ENFLERLTKI MREKYSKCSS.

Preparation: Produced from sera of rabbits immunized with highly pure Recombinant Human IL-4. Anti-Human IL-4-specific antibody was purified by affinity chromatography employing an immobilized Human IL-4 matrix.

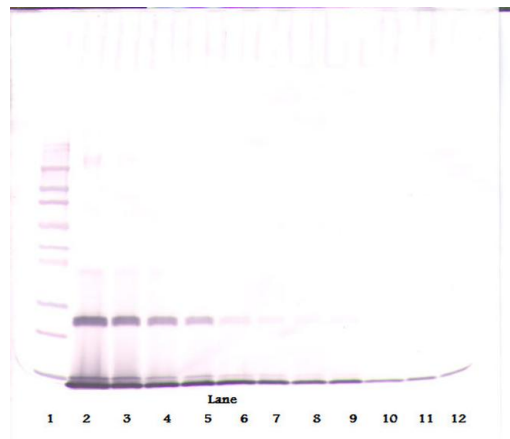
Sandwich ELISA: To detect Human IL-4 by sandwich ELISA (using 100 µL/well antibody solution) a concentration of 0.5-2.0 µg/mL of this antibody is required. This antigen affinity purified antibody, in conjunction with PeproTech Biotinylated Anti-Human IL-4 (500-P24Bt) as a detection antibody, allows the detection of at least 0.2-0.4 ng/well of Recombinant Human IL-4.

Western Blot: To detect Human IL-4 by Western Blot analysis this antibody can be used at a concentration of 0.1-0.2 µg/mL. Used in conjunction with compatible secondary reagents the detection limit for Recombinant Human IL-4 is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.



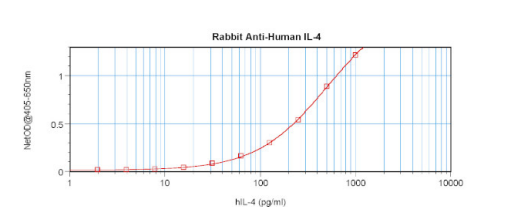
**IL-4 Antibody (500-P24-1MG) in WB**

Western Blot: To detect Human IL-4 by Western Blot analysis IL-4 Polyclonal Antibody (Product # 500-P24-1MG) can be used at a concentration of 0.1-0.2 µg /mL. Used in conjunction with compatible secondary reagents the detection limit for Recombinant Human IL-4 is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.



**IL-4 Antibody (500-P24-1MG) in WB**

Western Blot: To detect Human IL-4 by Western Blot analysis IL-4 Polyclonal Antibody (Product # 500-P24-1MG) can be used at a concentration of 0.1-0.2 µg /mL. Used in conjunction with compatible secondary reagents the detection limit for Recombinant Human IL-4 is 1.5-3.0 ng/lane, under either reducing or non-reducing conditions.



**IL-4 Antibody (500-P24-1MG) in ELISA**

Sandwich ELISA: To detect Human IL-4 by sandwich ELISA (using 100 µL/well antibody solution) a concentration of 0.5-2.0 µg/mL of IL-4 Polyclonal Antibody (Product # 500-P24-1MG) is required. This antigen affinity purified antibody, in conjunction with PeproTech IL-4 Polyclonal Antibody, Biotin (Product # 500-P24BT-1MG) as a detection antibody, allows the detection of at least 0.2-0.4 ng /well of Recombinant Human IL-4.

Western Blot (1)

Cell reports	Year 2019
<b>Transcriptional Circuit Fragility Influences HIV Proviral Fate.</b>	Species Human
"500-P24 was used in Western Blotting to study the effect of transcriptional fragility on HIV viral fate and cure efforts."	
Authors: Morton EL,Forst CV,Zheng Y,DePaula-Silva AB,Ramirez NP,Planelles V,D'Orso I	

Immunohistochemistry (1)

The European respiratory journal	Year 2003
<b>Interleukin-13 and -4 expression in the central airways of smokers with chronic bronchitis.</b>	Species Human
"500-P24 was used in Immunohistochemistry to study whether the T-helper 2-type cytokines interleukin (IL)-13 and -4 are involved in mucus hypersecretion, the hallmark of chronic bronchitis (CB) to show that -helper-2 and -1 protein expression is present in the central airways of smokers and interleukin-4 and -13 could contribute to mucus hypersecretion in chronic bronchitis."	
Authors: Miotto D,Ruggieri MP,Boschetto P,Cavallesco G,Papi A,Bononi I,Piola C,Murer B,Fabbri LM,Mapp CE	

Flow Cytometry (1)

Nature communications	Year 2022
<b>ADAP1 promotes latent HIV-1 reactivation by selectively tuning KRAS-ERK-AP-1 T cell signaling-transcriptional axis.</b>	Species Human
"500-P24 was used in Flow cytometry/Cell sorting to define ADAP1 as an unexpected tuner of T cell programs facilitating HIV-1 latency escape."	
Authors: Ramirez NP, Lee J, Zheng Y, Li L, Dennis B, Chen D, Challa A, Planelles V, Westover KD, Alto NM, D'Orso I	

ELISA (2)

International journal of molecular sciences	Year 2022
<b>Human Mesenchymal Stem Cell Secretome Driven T Cell Immunomodulation Is IL-10 Dependent.</b>	Species Human
"500-P24 was used in Enzyme-linked immunosorbent assay to investigate human mesenchymal stem cell secretions in treatment therapies."	
Authors: Shephard MT, Merkhan MM, Forsyth NR	

More applications with references on thermofisher.com

- IV (6)
- Misc (2)

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