

IL-4 Monoclonal Antibody (E10022)

Product Details	
Size	500 µg
Species Reactivity	Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	E10022
Conjugate	Unconjugated
Immunogen	Recombinant human IL-4 purified from Pichia pastoris
Form	Lyophilized
Concentration	0.5 mg/mL
Purification	Protein G
Storage buffer	PBS with 10% trehalose
Contains	no preservative
Storage conditions	4° C
RRID	AB_417050

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	-
ELISA (ELISA)	0.001-20 µg/mL	-

Product Specific Information

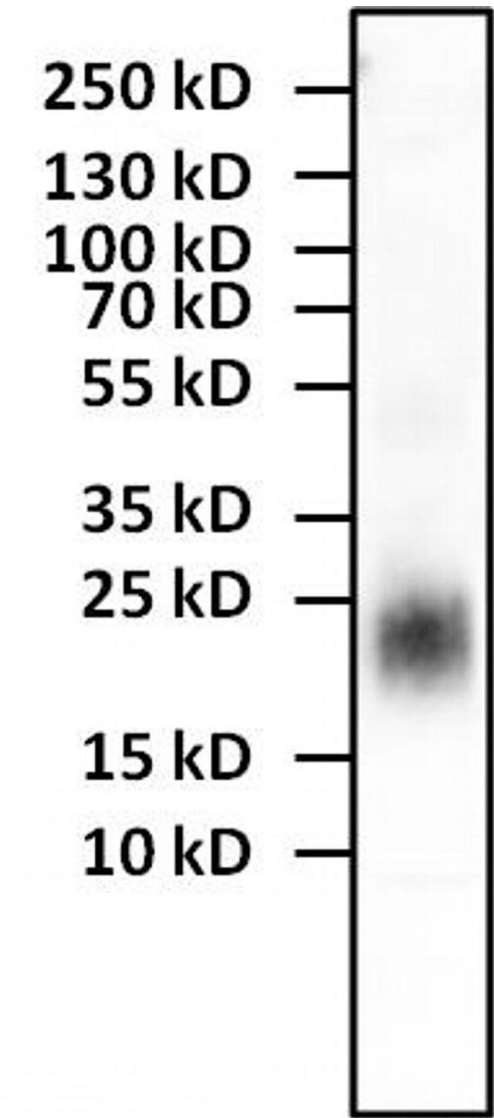
M2IL4I targets IL-4 in ELISA and Western blot applications and shows reactivity with Human samples.

The M2IL4I immunogen is recombinant human IL-4 purified from Pichia pastoris.

M2IL4I detects IL-4 which has a predicted molecular weight of approximately 15 kDa.

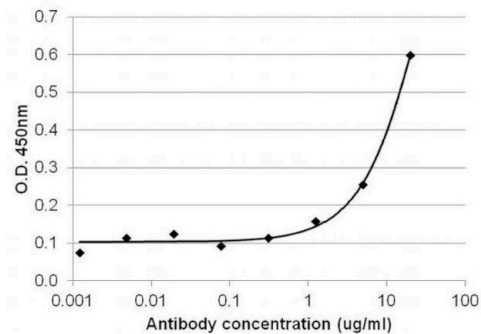
Endotoxin levels are less than or equal to 10 µg/mL.

Product Images For IL-4 Monoclonal Antibody (E10022)



IL-4 Antibody (M2IL4I) in WB

Western blot analysis of IL-4 was performed by loading 1 µg of human recombinant protein IL-4 (1 µg/lane, Product # RIL4I) in non-reducing sample buffer and 8 µL PageRuler Plus Prestained Protein Ladder (Product # 26619) per well onto a 4-20% Tris-Glycine polyacrylamide gel (Product # WT4202BOX). Proteins were transferred to a nitrocellulose membrane using the G2 Fast Blotter (Product # 62288) and blocked with 5% Milk/TBST for at least 1 hour at room temperature. IL-4 was detected using a IL-4 mouse monoclonal antibody (Product # M2IL4I) at a dilution of 1:1000 in blocking buffer overnight at 4°C on a rocking platform, followed by a HRP conjugated secondary antibody (Product # 62-6520) at a dilution of 1:5000 for at least 1 hour at room temperature. Chemiluminescent detection was performed using SuperSignal West Dura Extended Duration Substrate (Product # 34076) and the myECL Imager (Product # 62236).



IL-4 Antibody (M2IL4I) in ELISA

Direct ELISA analysis of IL-4 was performed by coating wells of a 96-well plate with 100 µL per well of IL-4 (Product # RIL4I) diluted in carbonate/bicarbonate buffer (Product # 28382) at a concentration of 1 µg/mL overnight at 4°C. Wells of the plate were washed, blocked with starting blocking buffer (Product # 37538), and incubated with 100 µL per well of a mouse anti-IL-4 monoclonal antibody (Product # M2IL4I) at a concentration of 0.0012, 0.005, 0.020, 0.078, 0.312, 1.25, 5 and 20 µg/mL for 90 minutes at 37°C. The plate was washed, then incubated with 100 µL per well of an HRP-conjugated goat anti-mouse IgG secondary antibody (Product # 62-6520) at a dilution of 1:2000 for 90 minutes at 37°C. Detection was performed using 1-Step Ultra TMB substrate (Product # 34028) for 30 minutes at room temperature in the dark. The reaction was stopped with Stop solution (Product # N600), and absorbances were read on a spectrophotometer at 450-550 nm.

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