

IL-6 Polyclonal Antibody

Product Details

Size	1 mg
Species Reactivity	Human, Mouse
Published Species	Pig, Rat, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant human IL-6.
Form	Liquid
Concentration	1.0 mg/mL
Purification	Protein G
Storage buffer	PBS
Contains	no preservative
Storage conditions	-20°C
RRID	AB_223481

Applications	Tested Dilution	Publications
Western Blot (WB)	1:1,000	5 Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunocytochemistry (ICC/IF)	1:100	2 Publications
Flow Cytometry (Flow)	1:50-1:200	-
ELISA (ELISA)	1:50-1:5,000	6 Publications
Immunoprecipitation (IP)	-	1 Publication
Neutralization (Neu)	-	6 Publications

Product Specific Information

P620 detects IL-6 in WB, Flow and ELISA applications with human samples.

The P620 immunogen is recombinant human IL-6.

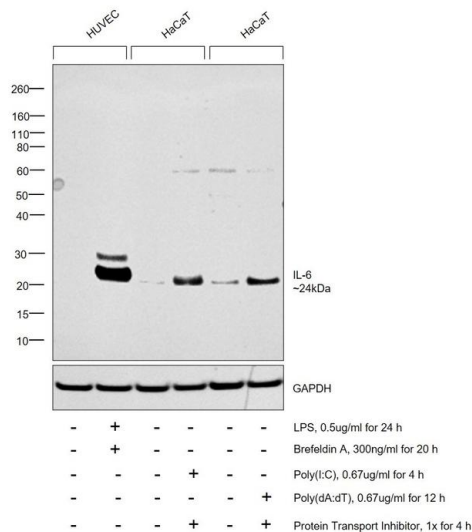
P620 detects IL-6 which has a predicted molecular weight of approximately 22 kDa.

This product has been tested for endotoxins by limulus amoebocyte lysate (LAL) assay and contains an endotoxin concentration of less than or equal to 10 endotoxin units per milligram (EU/mg).

Product Images For IL-6 Polyclonal Antibody

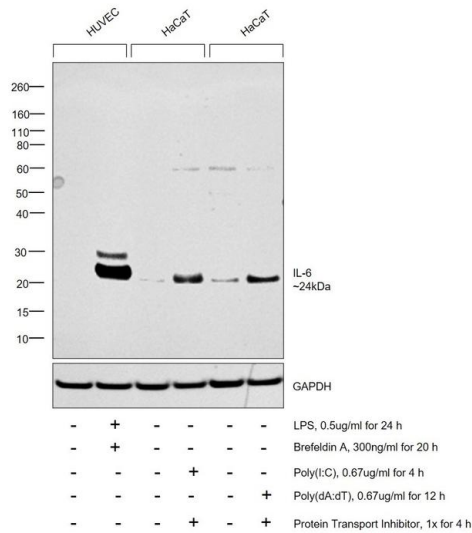
IL-6 Antibody (P620)

Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot using IL-6 Polyclonal Antibody (Product # P620), shows upregulation in the expression of IL-6 upon treatment of HUVEC cells with LPS and Brefeldin A, HaCaT cells with Poly(I:C) and PTI, and Poly(dA:dT) and PTI. {TM}



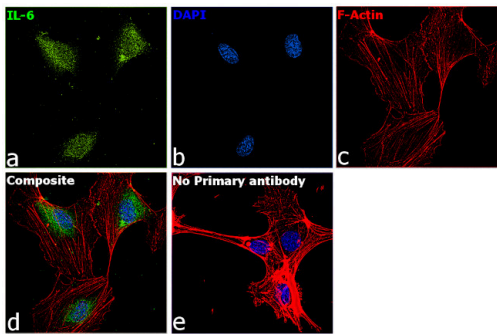
IL-6 Antibody (P620) in WB

Western blot was performed using Anti-IL-6 Polyclonal Antibody (Product # P620) and a 24 kDa band corresponding to IL-6 was observed across all cell lines upon cell treatment. Whole cell extracts (30 µg lysate) of HUVEC (Lane 1), HUVEC treated with LPS and Brefeldin A (0.5 µg/mL LPS for 24 h and 300 ng/mL Brefeldin A for last 20 h of LPS stimulation) (Lane 2), HaCaT (Lane 3), HaCaT treated with Poly(I:C) and PTI (0.67 µg/mL and 1x respectively for 4 h) (Lane 4), HaCaT (Lane 5) and HaCaT treated with Poly(dA:dT) and PTI (0.67 µg/mL Poly (dA:dT) for 12 h and 1x PTI for last 4 h of stimulation) (Lane 6) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1 µg/mL dilution) and detected by chemiluminescence with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A27036, 1: 4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using SuperSignal™ West Dura Extended Duration Substrate (Product # 34076). Expression of IL-6 was observed to be upregulated upon treatment of HUVEC cells with LPS and Brefeldin A, HaCaT cells with Poly(I:C) and PTI, and Poly(dA:dT) and PTI.



IL-6 Antibody (P620) in ICC/IF

Immunofluorescence analysis of IL-6 was performed using 70% confluent log phase HUVEC cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with IL-6 Polyclonal Antibody (Product # P620) at 1:100 dilution in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Donkey anti-Rabbit IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32790), (1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing Predominantly Golgi Complex and Endoplasmic Reticulum localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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Western Blot (5)

Particle and fibre toxicology	Year 2023
Polypropylene nanoplastic exposure leads to lung inflammation through p38-mediated NF-B pathway due to mitochondrial damage.	
"Published figure using IL-6 polyclonal antibody (Product # P620) in Western Blot"	
Authors: Woo JH,Seo HJ,Lee JY,Lee I,,Jeon K,Kim B,Lee K	
Disease markers	Year 2022
PIAS1 Alleviates Hepatic Ischemia-Reperfusion Injury in Mice through a Mechanism Involving NFATc1 SUMOylation.	Species Mouse
"P620 was used in Western Blotting to show that the NFATc1/HDAC1/IRF-1/p38 MAPK signaling axis is highlighted as a promising therapeutic target for potentiating hepatoprotective effects of PIAS1 against HIRI."	Dilution 1:1000
Authors: Luo J,Li J,Li T,Zhang Z,Chen G,Li Q,Qi H,Si Z	

View more WB references on thermofisher.com

Immunohistochemistry (2)

Veterinary immunology and immunopathology	Year 2002
Changes in macrophages in spleen and lymph nodes during acute African swine fever: expression of cytokines.	Species Pig
"P620 was used in immunohistochemistry to study the role of cytokine expression by macrophages in spleen and lymph nodes in the pathogenesis of African swine fever"	Dilution 1:10
Authors: Salguero FJ,Ruiz-Villamor E,Bautista MJ,Sánchez-Cordón PJ,Carrasco L,Gómez-Villamandos JC	
Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery	Year 1995
Localization of cytokines in cholesteatoma tissue.	Species Human
"P620 was used in immunohistochemistry to investigate the distribution of various cytokines in cholesteatoma tissue"	Dilution 1:50
Authors: Marenda SA,Aufdemorte TB	

More applications with references on thermofisher.com

- ICC/IF (2)
- ELISA (6)
- IP (1)
- Neu (6)

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