

IL-6 Polyclonal Antibody

Product Details

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| Size | 1 mg |
| Species Reactivity | Human, Mouse |
| Published Species | Rat, Pig, 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 | 7 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.

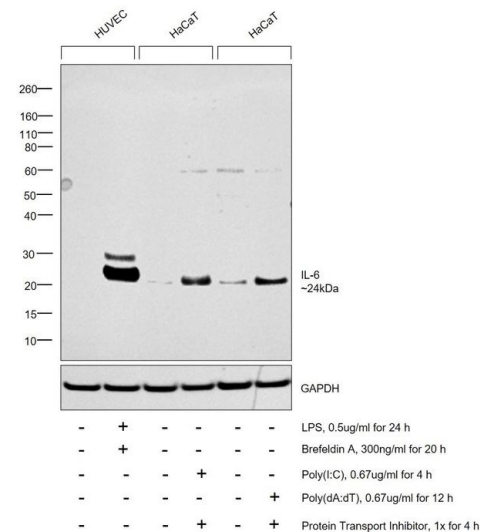
P620 detects IL-6 which has a predicted molecular weight of approximately 22 kDa.

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

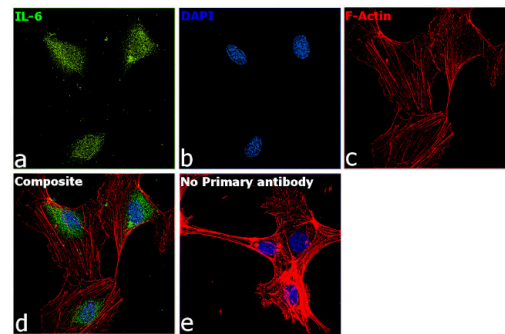
IL-6 Antibody (P620)

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}



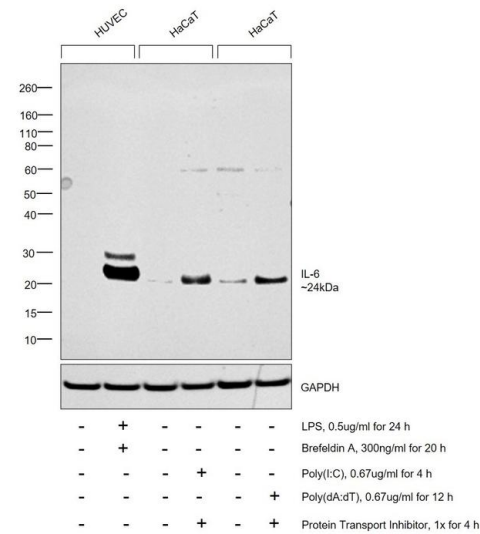
IL-6 Antibody (P620) in ICC/IF

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.



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 BrefeldinA (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 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.



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Western Blot (7)

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| Marine drugs | Year 2023 |
| Protective Effect of Fucoxanthin on Zearalenone-Induced Hepatic Damage through Nrf2 Mediated by PI3K/AKT Signaling. | |
| "Published figure using IL-6 polyclonal antibody (Product # P620) in Western Blot" | |
| Authors: Ben Ammar R,Zahra HA,Abu Zahra AM,Alfwuaires M,Abdulaziz Alamer S,Metwally AM,Althnaian TA,Al-Ramadan SY | |
| Frontiers in cardiovascular medicine | Year 2023 |
| Oxidative stress and inflammation distinctly drive molecular mechanisms of diastolic dysfunction and remodeling in female and male heart failure with preserved ejection fraction rats. | Species Rat |
| "P620 was used in Western Blotting to suggest that oxidative stress and inflammation distinctly drive diastolic dysfunction and remodeling in female and male rats with HFpEF and that the sex-dependent mechanisms contribute to HF pathology." | Dilution 1:1,000 |
| Authors: Zhazykbayeva S,Hassoun R,Herwig M,Budde H,Kovács Á,Mannherz HG,El-Battrawy I,Tóth A,Schmidt WE,Mügge A,Hamdani N | |

View more WB references on thermofisher.com

Immunohistochemistry (2)

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| 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: Marena SA,Aufdemorte TB | |

More applications with references on thermofisher.com

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

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