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IL-6 Rabbit mAb

Catalog No.: A27228 Recombinant

Basic Information

Observed MW
24 kDa

Calculated MW
24 kDa

Category
Primary antibody

Applications
WB,IP,IF/ICC,IHC-P,ELISA

Cross-Reactivity
Mouse

CloneNo number
ARC3396

Background

This gene encodes a cytokine that functions in inflammation and the maturation of B cells. In addition, the encoded protein has been shown to be an endogenous pyrogen capable of inducing fever in people with autoimmune diseases or infections. The protein is primarily produced at sites of acute and chronic inflammation, where it is secreted into the serum and induces a transcriptional inflammatory response through interleukin 6 receptor, alpha. The functioning of this gene is implicated in a wide variety of inflammation-associated disease states, including suspectibility to diabetes mellitus and systemic juvenile rheumatoid arthritis. Elevated levels of the encoded protein have been found in virus infections, including COVID-19 (disease caused by SARS-CoV-2).

Recommended Dilutions

WB	1:2000 - 1:5000
IP	0.5 μg - 4 μg antibody for 200 μg - 400 μg extracts of whole cells
IF/ICC	1:200 - 1:400
IHC-P	1:150 - 1:600
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
16193

Swiss Prot
P05231

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
CDF; HGF; HSF; BSF2; IL-6; BSF-2; IFNB2; IFN-beta-2; IL6

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃

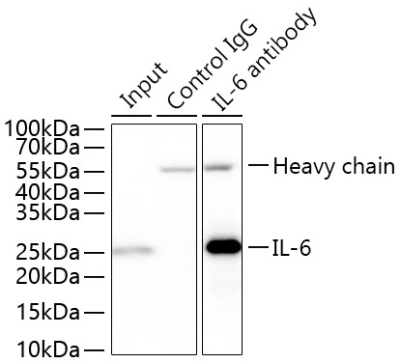
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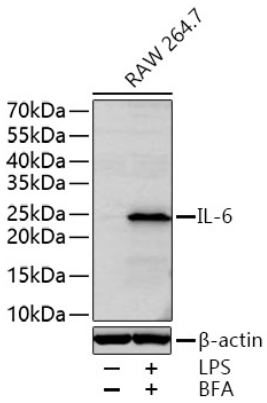
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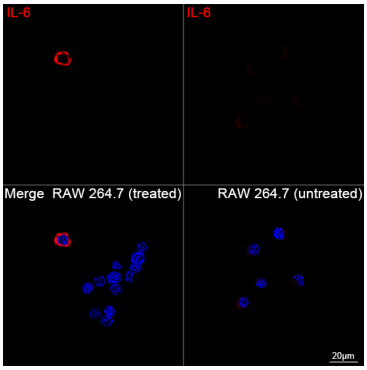
Validation Data



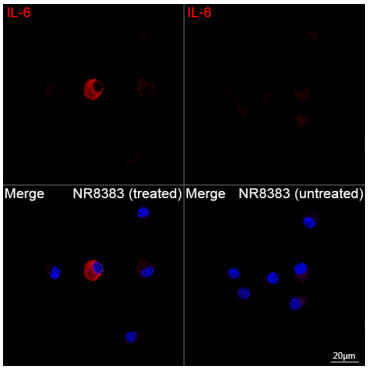
Immunoprecipitation of IL-6 from 300 µg extracts of RAW 264.7 cells treated with LPS (100 ng/mL, 3h) and BFA (300 ng/mL, 4h) was performed using 2 µg of IL-6 Rabbit mAb (A27228). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using IL-6 Rabbit mAb (A27228) at a dilution of 1:10000.



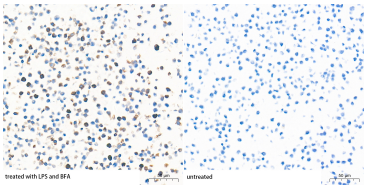
Western blot analysis of lysates from RAW 264.7 cells using IL-6 Rabbit mAb (A27228) at 1:5000 dilution incubated overnight at 4℃. RAW 264.7 cells were treated with LPS (100 ng/mL) at 37℃ for 3 hours and BFA (300 ng/mL) at 37℃ for 4 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 30 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45 s.



Confocal imaging of RAW 264.7 cells (treated with LPS and BFA) and RAW 264.7 cells (untreated) using IL-6 Rabbit mAb (A27228, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.

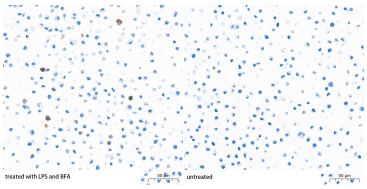


Confocal imaging of NR8383 cells (treated with LPS and BFA) and NR8383 cells (untreated) using IL-6 Rabbit mAb (A27228, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Objective: 100x.



Immunohistochemistry analysis of paraffin-embedded RAW 264.7 cells, LPS and BFA-treated (left) and untreated (right), using IL-6 Rabbit mAb (A27228) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.

Validation Data



Immunohistochemistry analysis of paraffin-embedded NR8383 cells, LPS and BFA-treated (left) and untreated (right), using IL-6 Rabbit mAb (A27228) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.