

Product datasheet

Anti-IL-6 antibody [EPR23819-11] ab259341

Recombinant RabMAb

7 Images

Overview

Product name	Anti-IL-6 antibody [EPR23819-11]
Description	Rabbit monoclonal [EPR23819-11] to IL-6
Host species	Rabbit
Tested applications	Suitable for: WB, IP Unsuitable for: Flow Cyt (Intra), ICC, IHC or IHC-Fr
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: RAW264.7 treated with 0.1 µg/ml lipopolysaccharide (LPS) then with 1 µg/ml Brefeldin A (BFA), HUVEC treated with 0.5 µg/ml LPS, then with 0.3 µg/ml BFA, NR8383 treated with 0.1 µg/ml LPS, then with 1 µg/ml BFA IP: RAW264.7 treated with 0.1 µg/ml LPS, then with 1 µg/ml BFA, HUVEC treated with 0.5 µg/ml LPS, then with 0.3 µg/ml BFA, NR8383 cells treated with 0.1 µg/ml LPS, then with 1 µg/ml BFA.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59.94% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified

Clonality	Monoclonal
Clone number	EPR23819-11
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab259341 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 23 kDa.
IP		1/30.

Application notes Is unsuitable for Flow Cyt (Intra), ICC, IHC or IHC-Fr.

Target

Function Cytokine with a wide variety of biological functions. It is a potent inducer of the acute phase response. Plays an essential role in the final differentiation of B-cells into Ig-secreting cells. Involved in lymphocyte and monocyte differentiation. It induces myeloma and plasmacytoma growth and induces nerve cells differentiation. Acts on B-cells, T-cells, hepatocytes, hematopoietic progenitor cells and cells of the CNS. Also acts as a myokine. It is discharged into the bloodstream after muscle contraction and acts to increase the breakdown of fats and to improve insulin resistance.

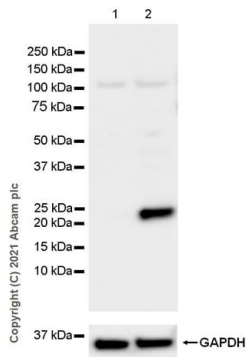
Involvement in disease Genetic variations in IL6 are associated with susceptibility to rheumatoid arthritis systemic juvenile (RASJ) [MIM:604302]. An inflammatory articular disorder with systemic-onset beginning before the age of 16. It represents a subgroup of juvenile arthritis associated with severe extraarticular features and occasionally fatal complications. During active phases of the disorder, patients display a typical daily spiking fever, an evanescent macular rash, lymphadenopathy, hepatosplenomegaly, serositis, myalgia and arthritis.
Note=A IL6 promoter polymorphism is associated with a lifetime risk of development of Kaposi sarcoma in HIV-infected men.

Sequence similarities Belongs to the IL-6 superfamily.

Post-translational modifications N- and O-glycosylated.

Cellular localization Secreted.

Images



Western blot - Anti-IL-6 antibody [EPR23819-11] (ab259341)

All lanes : Anti-IL-6 antibody [EPR23819-11] (ab259341) at 1/1000 dilution

Lane 1 : Untreated RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate

Lane 2 : RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) treated with 0.1 µg/ml lipopolysaccharide (LPS) for 4 hours, then with 1 µg/ml Brefeldin A (BFA) added for 3 hours whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 23 kDa

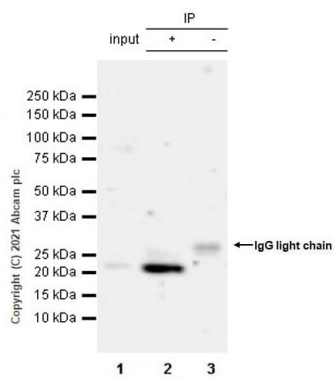
Observed band size: 24 kDa

Blocking and diluting buffer and concentration: 5% NFDm/TBST.

The molecular weight is consistent with what has been described in the literatures (PMID:2523818, PMID:25130514)

IL6 expressed in LPS-induced RAW264.7 cells (PMID:31718640, PMID:30823686).

Exposure time: 26 seconds



Immunoprecipitation - Anti-IL-6 antibody [EPR23819-11] (ab259341)

IL-6 was immunoprecipitated from 0.35 mg HUVEC (human umbilical vein endothelial cell) treated with 0.5 ug/ml lipopolysaccharide (LPS) for 4 hours, then with 0.3 ug/ml Brefeldin A (BFA) added for 20 hours whole cell lysate 10 ug with ab259341 at 1/30 dilution (2 ug in 0.35 mg lysates). Western blot was performed on the immunoprecipitate using ab259341 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)([ab131366](#)) was used at 1/5000 dilution.

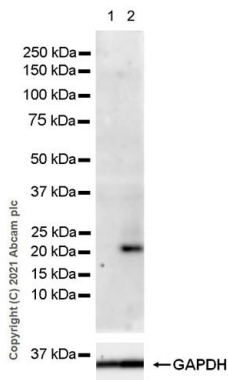
Lane 1: HUVEC (human umbilical vein endothelial cell) treated with 0.5 ug/ml lipopolysaccharide (LPS) for 4 hours, then with 0.3 ug/ml Brefeldin A (BFA) added for 20 hours whole cell lysate 10 ug

Lane 2: ab259341 IP in HUVEC treated with 0.5 ug/ml lipopolysaccharide (LPS) for 4 hours, then with 0.3 ug/ml Brefeldin A (BFA) added for 20 hours whole cell lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab259341 in HUVEC treated with 0.5 ug/ml lipopolysaccharide (LPS) for 4 hours, then with 0.3 ug/ml Brefeldin A (BFA) added for 20 hours whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 3 minutes



Western blot - Anti-IL-6 antibody [EPR23819-11] (ab259341)

All lanes : Anti-IL-6 antibody [EPR23819-11] (ab259341) at 1/1000 dilution

Lane 1 : Untreated HUVEC (human umbilical vein endothelial cell) whole cell lysate

Lane 2 : HUVEC (human umbilical vein endothelial cell) treated with 0.5 µg/ml lipopolysaccharide (LPS) for 4 hours, then with 0.3 µg/ml Brefeldin A (BFA) added for 20 hours whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

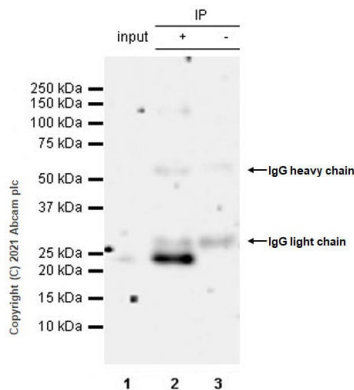
Predicted band size: 23 kDa

Observed band size: 20 kDa

Blocking and diluting buffer and concentration: 5% NFDM/TBST.

The molecular weight is consistent with what has been described in the literatures (PMID:2523818, PMID:25130514)

Exposure time: 3 minutes



Immunoprecipitation - Anti-IL-6 antibody [EPR23819-11] (ab259341)

IL-6 was immunoprecipitated from 0.35 mg RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) treated with 0.1 µg/ml lipopolysaccharide (LPS) for 4 hours, then with 1 µg/ml Brefeldin A (BFA) added for 3 hours whole cell lysate 10 µg with ab259341 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab259341 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP) (ab131366) was used at 1/5000 dilution.

Lane 1: RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) treated with 0.1 µg/ml lipopolysaccharide (LPS) for 4 hours, then with 1µg/ml Brefeldin A (BFA) added for 3 hours whole cell lysate 10 µg

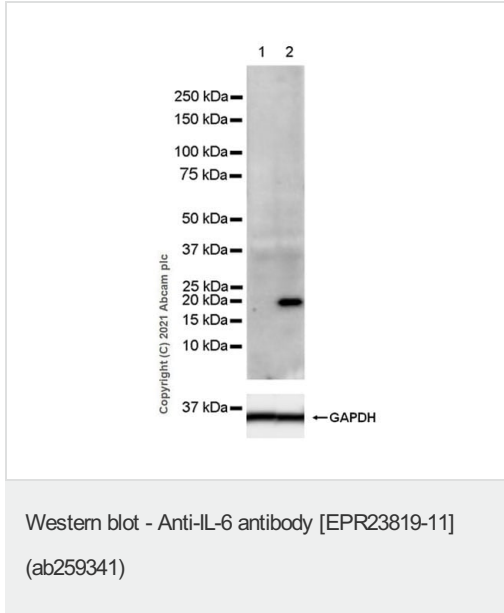
Lane 2: ab259341 IP in RAW264.7 treated with 0.1µg/ml lipopolysaccharide (LPS) for 4 hours, then with 1µg/ml Brefeldin A (BFA) added for 3 hours whole cell lysate

Lane 3:Rabbit monoclonal IgG (ab172730) instead of ab259341 in RAW264.7 treated with 0.1µg/ml lipopolysaccharide (LPS) for 4

hours, then with 1ug/ml Brefeldin A (BFA) added for 3 hours whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 3 minutes



All lanes : Anti-IL-6 antibody [EPR23819-11] (ab259341) at 1/1000 dilution

Lane 1 : Untreated NR8383 (rat lung macrophage (alveolar)) whole cell lysate

Lane 2 : NR8383 (rat lung macrophage (alveolar)) treated with 0.1 µg/ml lipopolysaccharide (LPS) for 4 hours, then with 0.3 µg/ml Brefeldin A (BFA) added for 3 hours whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 23 kDa

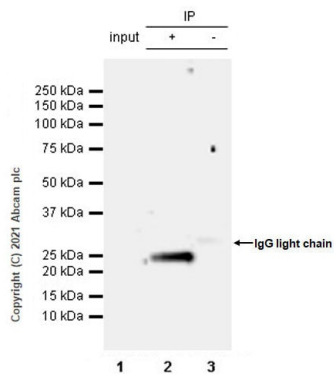
Observed band size: 20 kDa

Blocking and diluting buffer and concentration: 5% NFDm/TBST.

This blot was developed using a higher sensitivity ECL substrate.

The molecular weight is consistent with what has been described in the literatures (PMID:2523818, PMID:25130514)

Exposure time: 3 minutes



Immunoprecipitation - Anti-IL-6 antibody [EPR23819-11] (ab259341)

IL-6 was immunoprecipitated from 0.35 mg NR8383 (rat lung macrophage (alveolar)) treated with 0.1 ug/ml lipopolysaccharide (LPS) for 4 hours, then with 1 ug/ml Brefeldin A (BFA) added for 3 hours whole cell lysate 10 ug with ab259341 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab259341 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP)([ab131366](#)) was used at 1/5000 dilution.

Lane 1: NR8383 (rat lung macrophage (alveolar)) treated with 0.1 ug/ml lipopolysaccharide (LPS) for 4 hours, then with 1 ug/ml Brefeldin A (BFA) added for 3 hours whole cell lysate 10 ug

Lane 2: ab259341 IP in NR8383 treated with 0.1 ug/ml lipopolysaccharide (LPS) for 4 hours, then with 1 ug/ml Brefeldin A (BFA) added for 3 hours whole cell lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab259341 in NR8383 treated with 0.1 ug/ml lipopolysaccharide (LPS) for 4 hours, then with 1 ug/ml Brefeldin A (BFA) added for 3 hours whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 3 minutes

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-IL-6 antibody [EPR23819-11] (ab259341)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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