abcam

Product datasheet

Anti-IL-6 antibody [EPR21710] ab229381

Recombinant RabMAb

20 References 4 Images

Overview

Product name	Anti-IL-6 antibody [EPR21710]
Description	Rabbit monoclonal [EPR21710] to IL-6
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP
Species reactivity	**Reacts with:** Mouse
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: RAW 264.7 treated with LPS and BFA, whole cell lysate. IP: RAW 264.7 treated with LPS and BFA, whole cell lysate.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR21710
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab229381 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. Detects a band of approximately 24 kDa (predicted molecular weight: 24 kDa).
IP		1/30.

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, hematopoeitic 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.

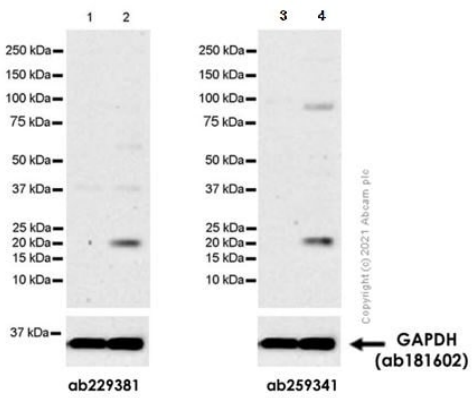
Involvement in disease Genetic variations in IL6 are associated with susceptibility to rheumatoid arthritis systemic juvenile (RASJ) [MIM:604302]. An inflammatory articular disorder with systemic-onset beginning before the age of 16. It represents a subgroup of juvenile arthritis associated with severe 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 [EPR21710] (ab229381)

Lanes 1-2 : Anti-IL-6 antibody [EPR21710] (ab229381) at 1/1000 dilution
Lanes 3-4 : Anti-IL-6 antibody [EPR23819-11] (**ab259341**) at 1/1000 dilution

Lanes 1 & 3 : Untreated RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate
Lanes 2 & 4 : RAW264.7 (mouse Abelson murine leukemia virus-induced tumor macrophage) treated with 100ng/ml lipopolysaccharide (LPS) for 6 hours, then added 300 ng/ml BFA for the last 3 hours, whole cell lysate

Lysates/proteins at 20 µg per lane.

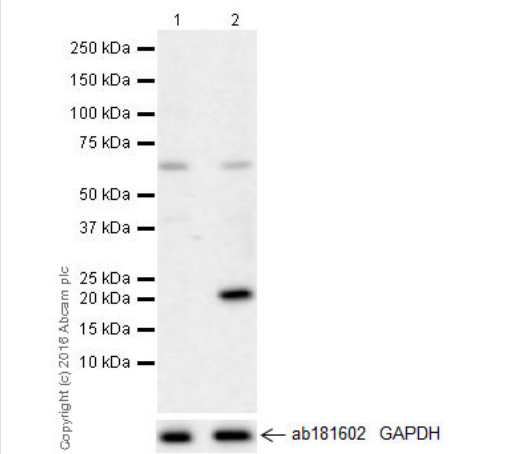
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 24 kDa
Observed band size: 24 kDa

Exposure time: 180 seconds

Western blot analysis with ab229381 (left) and control product **ab259341** (right).

Blocking and diluting buffer: 5% NFDM/TBST



Western blot - Anti-IL-6 antibody [EPR21710] (ab229381)

All lanes : Anti-IL-6 antibody [EPR21710] (ab229381) at 1/1000 dilution

Lane 1 : Untreated RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus), whole cell lysate
Lane 2 : RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus) treated with 100 ng/ml Lipopolysaccharides (LPS) for 6 hours, then added 300 ng/ml BFA for the last 3 hours, whole cell lysate, whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

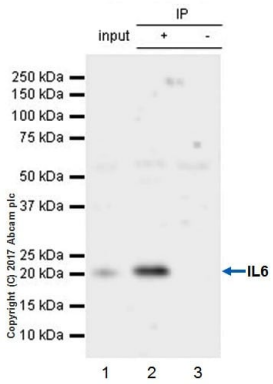
Developed using the ECL technique.

Predicted band size: 24 kDa
Observed band size: 24 kDa

Exposure time: 3 minutes

Blocking/Dilution buffer: 5% NFDM/TBST.

We detect a non-specific band at approximately 60 KDa.



Immunoprecipitation - Anti-IL-6 antibody [EPR21710] (ab229381)

IL6 was immunoprecipitated from 0.35 mg of RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus) treated with 100 ng/ml Lipopolysaccharide (LPS) for 6 hours, then added 300 ng/ml BFA the last 3 hours, whole cell lysate with ab229381 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab229381 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/5000 dilution.

Lane 1: RAW 264.7 treated with 100 ng/ml Lipopolysaccharide (LPS) for 6 hours, then added 300 ng/ml BFA the last 3 hours, whole cell lysate 10 µg (Input).
Lane 2: ab229381 IP in RAW 264.7 treated with 100 ng/ml Lipopolysaccharide (LPS) for 6 hours, then added 300 ng/ml BFA the last 3 hours, whole cell lysate.
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab229381 in RAW 264.7 treated with 100 ng/ml Lipopolysaccharide (LPS) for 6 hours, then added 300 ng/ml BFA the last 3 hours, whole cell lysate.

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

Exposure time: 2 minutes.

Anti-IL-6 antibody [EPR21710] (ab229381)

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