

Product datasheet

Anti-IL-6 antibody [EPR21710] - BSA and Azide free ab229697

Recombinant RabMAb

3 Images

Overview

Product name	Anti-IL-6 antibody [EPR21710] - BSA and Azide free
Description	Rabbit monoclonal [EPR21710] to IL-6 - BSA and Azide free
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.
General notes	<p>ab229697 is the carrier-free version of ab229381.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <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. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR21710
Isotype	IgG

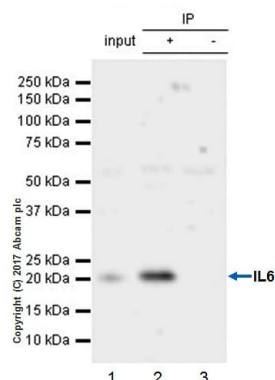
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab229697 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		Use at an assay dependent concentration. Detects a band of approximately 24 kDa (predicted molecular weight: 24 kDa).
IP		Use at an assay dependent concentration.

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.



Immunoprecipitation - Anti-IL-6 antibody [EPR21710]
- BSA and Azide free (ab229697)

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).

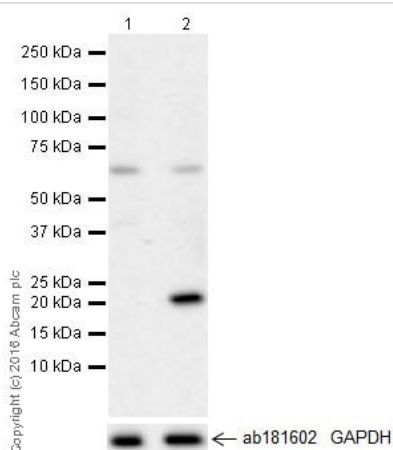
Lane 2: **ab229381** IP in RAW 264.7 treated with 100 ng/ml Lipopolysaccharide (LPS) for 6 hours, then added 300 ng/ml BFA the last 3 hours, whole cell lysate.

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab229381**).



Western blot - Anti-IL-6 antibody [EPR21710] - BSA
and Azide free (ab229697)

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab229381**).

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

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

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