abcam

Product datasheet

Anti-IL-6 antibody [EPR21711] ab233706

敲除验证 重组 RabMAb

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概述

产品名称	Anti-IL-6抗体[EPR21711]
描述	兔单克隆抗体[EPR21711] to IL-6
宿主	Rabbit
经测试应用	**适用于:** Flow Cyt (Intra), WB, ICC/IF, IP
种属反应性	**与反应:** Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: LPS/BFA-treated HUVEC whole cell lysate; Wild-type A549 IL-1ÃŸ (**ab259387**) (20 ng/ml, 24h) and Brefeldin A (**ab120299**)-treated (5 ug/ml for the last 4h) cell lysate ICC/IF: LPS/BFA-treated HUVEC cells. Flow Cyt (intra): LPS/BFA-treated HUVEC cells. IP: LPS/BFA-treated HUVEC whole cell lysate.
常规说明	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**.

性能

形式	Liquid
存放说明	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.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol, 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR21711

同种型	IgG

应用

The Abpromise guarantee **Abpromise™承诺保证使用**ab233706**于以下的**经测试应用

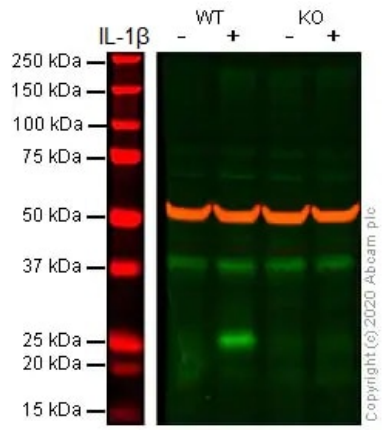
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
Flow Cyt (Intra)		1/500.
WB		1/1000. Detects a band of approximately 21 kDa (predicted molecular weight: 23 kDa).
ICC/IF		1/50.
IP		1/30.

靶标

功能	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.
疾病相关	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.
序列相似性	Belongs to the IL-6 superfamily.
翻译后修饰	N- and O-glycosylated.
细胞定位	Secreted.

图片



Western blot - Anti-IL-6 antibody [EPR21711] (ab233706)

All lanes : Anti-IL-6 antibody [EPR21711] (ab233706) at 1/1000 dilution

Lane 1 : Wild-type A549 Brefeldin A (**ab120299**)-treated (5ug/ml, 4h) cell lysate
Lane 2 : Wild-type A549 IL-1ß (**ab259387**) (20 ng/ml, 24h) and Brefeldin A (**ab120299**)-treated (5 ug/ml for the last 4h) cell lysate
Lane 3 : IL-6 knockout A549 Brefeldin A (**ab120299**)-treated (5ug/ml, 4h) cell lysate
Lane 4 : IL-6 knockout A549 IL-1ß (**ab259387**) (20 ng/ml, 24h) and Brefeldin A (**ab120299**)-treated (5 ug/ml for the last 4h) cell lysate

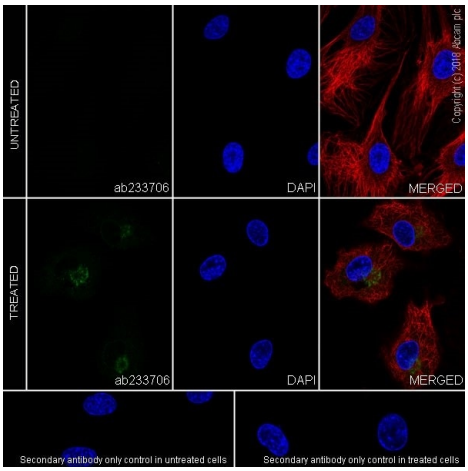
Lysates/proteins at 30 µg per lane.

Performed under reducing conditions.

Predicted band size: 23 kDa
Observed band size: 25 kDa
Additional bands at: 40 kDa (possible non-specific binding)

Lanes 1 - 4: Merged signal (red and green). Green - ab233706 observed at 25 kDa. Red - loading control **ab7291** (Mouse anti-Alpha Tubulin [DM1A] observed at 55kDa.

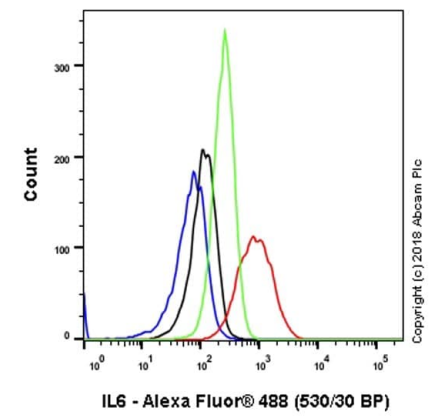
ab233706 was shown to react with IL-6 in wild-type A549 cells in western blot with loss of signal observed in IL-6 knockout cell line **ab273751** (knockout cell lysate **ab275501**). Wild-type and IL-6 knockout A549 cell lysates were subjected to SDS-PAGE. Membranes were blocked in fluorescent western blot (TBS-based) blocking solution before incubation with ab233706 and **ab7291** (Mouse anti-Alpha Tubulin [DM1A] overnight at 4°C at a 1 in 1000 Dilution and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-IL-6 antibody [EPR21711] (ab233706)

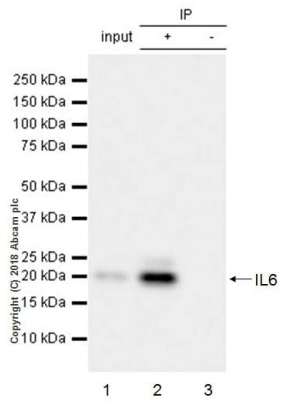
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HUVEC (human umbilical vein endothelial cell line) cells labeling IL6 with ab233706 at 1/50 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining in HUVEC cells treated with lipopolysaccharide (0.5 µg/ml) for 24h and Brefeldin A (300 ng/ml) for 20h. The nuclear counterstain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-IL-6 antibody [EPR21711] (ab233706)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized HUVEC (human umbilical vein endothelial cell line) treated with lipopolysaccharide (0.5 µg/ml) for 24h and Brefeldin A (300 ng/ml) for 20h (red) / untreated control (green) cells labeling IL6 with ab233706 at 1/500 compared with a Rabbit monoclonal IgG (**ab172730**) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**), at 1/2000 dilution was used as the secondary antibody.

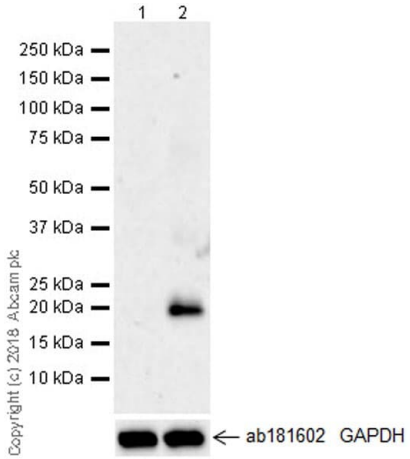


Immunoprecipitation - Anti-IL-6 antibody [EPR21711] (ab233706)

IL6 was immunoprecipitated from 0.35 mg HUVEC (human umbilical vein endothelial cell line) treated with lipopolysaccharide (0.5 µg/ml) for 24h and Brefeldin A (300 ng/ml) for 20h, whole cell lysate with ab233706 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab233706 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: HUVEC treated with lipopolysaccharide (0.5 µg/ml) for 24h and Brefeldin A (300 ng/ml) for 20h, whole cell lysate 10 µg (Input).
Lane 2: ab233706 IP in HUVEC treated with lipopolysaccharide (0.5 µg/ml) for 24h and Brefeldin A (300 ng/ml) for 20h, whole cell lysate.
Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab233706 in HUVEC treated with lipopolysaccharide (0.5 µg/ml) for 24h and Brefeldin A (300 ng/ml) for 20h, whole cell lysate.

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



Western blot - Anti-IL-6 antibody [EPR21711] (ab233706)

All lanes : Anti-IL-6 antibody [EPR21711] (ab233706) at 1/1000 dilution

Lane 1 : Untreated HUVEC (human umbilical vein endothelial cell line) whole cell lysate
Lane 2 : HUVEC treated with 0.5 µg/ml lipopolysaccharides (LPS) for 24 hours, added 300 ng/ml BFA last 20 hours, 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

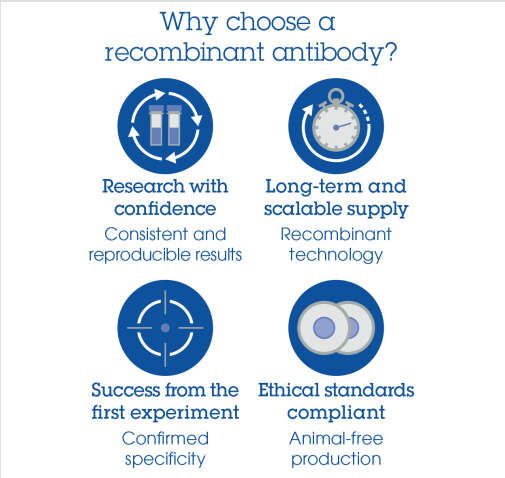
Developed using the ECL technique.

Predicted band size: 23 kDa
Observed band size: 21 kDa

Exposure time: 3 minutes

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

The molecular mass observed is consistent with what has been described in the literature (PMID: 2523818, PMID: 2783321).



Anti-IL-6 antibody [EPR21711] (ab233706)

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