abcam

Product datasheet

Anti-IL-6 antibody [EPR22565-204] - BSA and Azide free ab256355

KO 評価済 リコンビナント RabMAb

画像数 5

製品の概要

製品名	Anti-IL-6 antibody [EPR22565-204] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR22565-204] to IL-6 - BSA and Azide free
由来種	Rabbit
アプリケーション	**適用あり:** WB, ICC/IF, IP, Flow Cyt (Intra) **適用なし:** IHC-P
種交差性	**交差種:** Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: HUVEC treated with LPS then BFA (Brefeldin A) whole cell lysate. ICC/IF: HUVEC treated with LPS then BFA (Brefeldin A) cells. Flow Cyt (intra): HUVEC treated with LPS then BFA (Brefeldin A) cells. IP: HUVEC treated with LPS then BFA (Brefeldin A) whole cell lysate.
特記事項	ab256355 is the carrier-free version of **ab233551**. 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. 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. 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. 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. 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**.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C. Do Not Freeze.
バッファー	pH: 7.2 Constituent: PBS
キャリア・フリー	はい
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR22565-204
アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、** 次のテスト済みアプリケーションにおけるab256355の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use at an assay dependent concentration. Detects a band of approximately 21, 28 kDa (predicted molecular weight: 24 kDa).
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use at an assay dependent concentration.

追加情報 Is unsuitable for IHC-P.

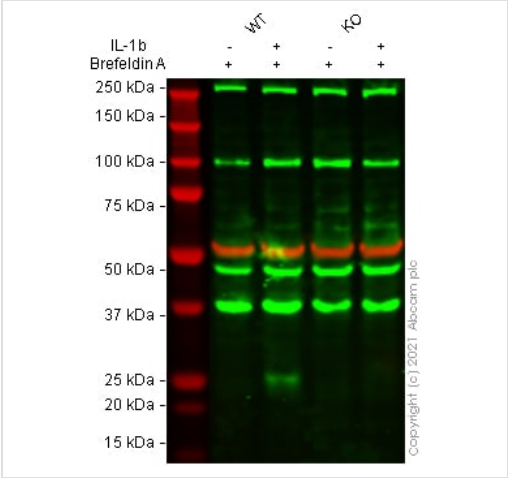
ターゲット情報

機能 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.

関連疾患 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.
配列類似性	Belongs to the IL-6 superfamily.
翻訳後修飾	N- and O-glycosylated.
細胞内局在	Secreted.

画像



Western blot - Anti-IL-6 antibody [EPR22565-204] - BSA and Azide free (ab256355)

All lanes : Anti-IL-6 antibody [EPR22565-204] (**ab233551**) at 1/1000 dilution

Lane 1 : Wild-type A549 Vehicle Control IL-1b (0 ng/mL, 24 h), Brefeldin A (5 ug/mL, final 6 h) cell lysate
Lane 2 : Wild-type A549 Treated IL-1b (20 ng/mL, 24 h), Brefeldin A (5 ug/mL, final 6 h) cell lysate
Lane 3 : IL-6 knockout A549 Vehicle Control IL-1b (0 ng/mL, 24 h), Brefeldin A (5 ug/mL, final 6 h) cell lysate
Lane 4 : IL-6 knockout A549 Treated IL-1b (20 ng/mL, 24 h), Brefeldin A (5 ug/mL, final 6 h) cell lysate

Lysates/proteins at 30 µg per lane.

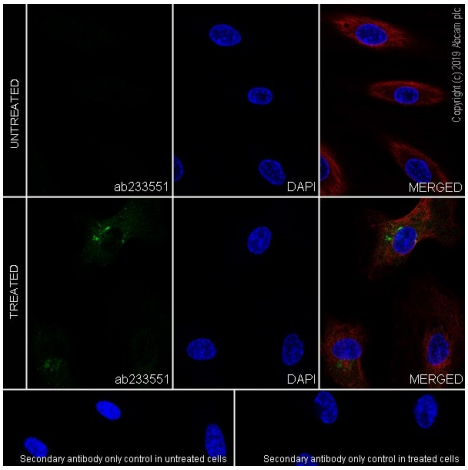
Performed under reducing conditions.

Predicted band size: 24 kDa
Observed band size: 25 kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab233551**).

False colour image of Western blot: Anti-IL-6 antibody [EPR22565-204] staining at 1/1000 dilution, shown in green; Mouse anti-Alpha Tubulin [DM1A] (**ab7291**) loading control staining at 1/20000 dilution, shown in red. In Western blot, **ab233551** was shown to bind specifically to IL-6. A band was observed at 25 kDa in wild-type A549 cell lysates with no signal observed at this size in IL6 knockout cell line **ab273751** (knockout cell lysate **ab275501**). To generate this image, wild-type and IL6 knockout A549 cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were

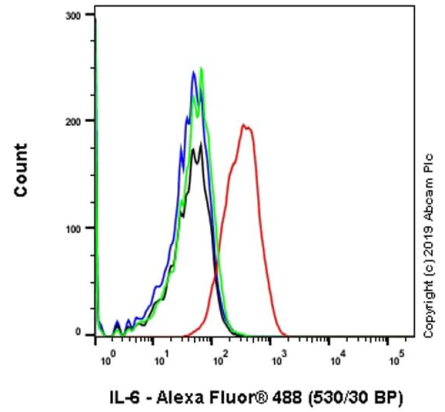
blocked in fluorescent western blot (TBS-based) blocking solution before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) at 1/20000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-IL-6 antibody [EPR22565-204] - BSA and Azide free (ab256355)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HUVEC (human umbilical vein endothelial cell) cells labeling IL-6 with **ab233551** at 1/100 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 (0.5µg/ml) for 4 h, then together with Brefeldin A (300ng/ml) for another 20h. The nuclear counterstain is DAPI (blue). Counterstained with **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at a 1/200 dilution (red). The negative control is the secondary antibody only.

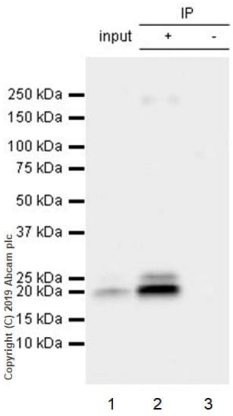
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab233551**).



Flow Cytometry (Intracellular) - Anti-IL-6 antibody [EPR22565-204] - BSA and Azide free (ab256355)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized HUVEC (Human umbilical vein endothelial cell) treated with 0.5ug/ml LPS for 4h, then together with 300ng/ml BFA for another 20h (Red) / Untreated control (Green), labeling IL-6 with **ab233551** at 1/400 (red) 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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab233551**).



Immunoprecipitation - Anti-IL-6 antibody [EPR22565-204] - BSA and Azide free (ab256355)

IL-6 was immunoprecipitated from 0.35 mg HUVEC (Human umbilical vein endothelial cell) treated with 0.5µg/ml LPS for 4h, then together with 300ng/ml BFA for another 20h whole cell lysate with **ab233551** at 1/20 dilution. Western blot was performed from the immunoprecipitate using **ab233551** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used at 1/5000 dilution.

Lane 1: HUVEC treated as above whole cell lysate 10 µg (Input).

Lane 2: **ab233551** IP in HUVEC treated as above whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab233551** in HUVEC treated as above whole cell lysate.

Blocking/Dilution buffer: 5% NFDM/TBST.
Exposure time: 15 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab233551**).

Anti-IL-6 antibody [EPR22565-204] - BSA and Azide free (ab256355)

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