abcam

Product datasheet

Anti-CD130 (gp130) antibody [EPR21732] - BSA and Azide free ab234105

KO 評価済 リコンビナント RabMAb

1 References 画像数 6

製品の概要

製品名	Anti-CD130 (gp130) antibody [EPR21732] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR21732] to CD130 (gp130) - BSA and Azide free
由来種	Rabbit
アプリケーション	**適用あり:** Indirect ELISA, WB
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: A549, HeLa, HAP1, and PC-3 whole cell lysates.
特記事項	ab234105 is the carrier-free version of **ab217671**. 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	EPR21732
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ab234105の使用に適用されます**

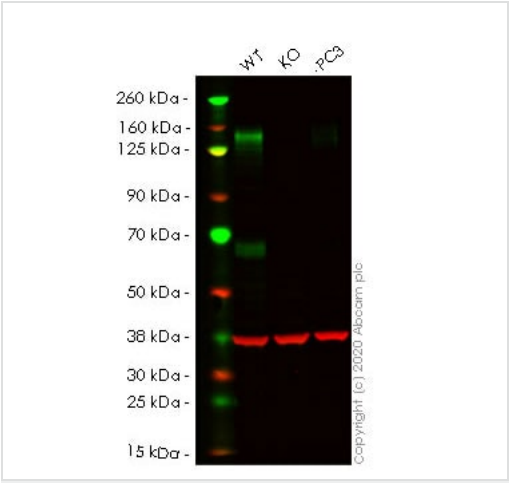
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Indirect ELISA		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 130 kDa (predicted molecular weight: 104 kDa). We recommend that the customer optimizes the western blotting conditions.

ターゲット情報

機能	Signal-transducing molecule. The receptor systems for IL6, LIF, OSM, CNTF, IL11, CTF1 and BSF3 can utilize gp130 for initiating signal transmission. Binds to IL6/IL6R (alpha chain) complex, resulting in the formation of high-affinity IL6 binding sites, and transduces the signal. Does not bind IL6. May have a role in embryonic development (By similarity). The type I OSM receptor is capable of transducing OSM-specific signaling events.
組織特異性	Found in all the tissues and cell lines examined. Expression not restricted to IL6 responsive cells.
配列類似性	Belongs to the type I cytokine receptor family. Type 2 subfamily. Contains 5 fibronectin type-III domains. Contains 1 Ig-like C2-type (immunoglobulin-like) domain.
ドメイン	The WSXWS motif appears to be necessary for proper protein folding and thereby efficient intracellular transport and cell-surface receptor binding. The box 1 motif is required for JAK interaction and/or activation.
翻訳後修飾	Phosphorylation of Ser-782 down-regulates cell surface expression. Heavily N-glycosylated.
細胞内局在	Secreted and Cell membrane.

画像



Western blot - Anti-CD130 (gp130) antibody [EPR21732] - BSA and Azide free (ab234105)

All lanes : Anti-CD130 (gp130) antibody [EPR21732] (**ab217671**) at 1/1000 dilution

Lane 1 : Wild-type A549 cell lysate
Lane 2 : IL6ST knockout A549 cell lysate
Lane 3 : PC3 cell lysate

Lysates/proteins at 20 µg per lane.

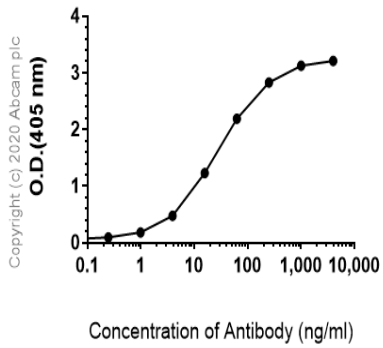
Performed under reducing conditions.

Predicted band size: 104 kDa
Observed band size: 130 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab217671**).

Lanes 1- 2: Merged signal (red and green). Green - **ab217671** observed at 130 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) observed at 37 kDa.

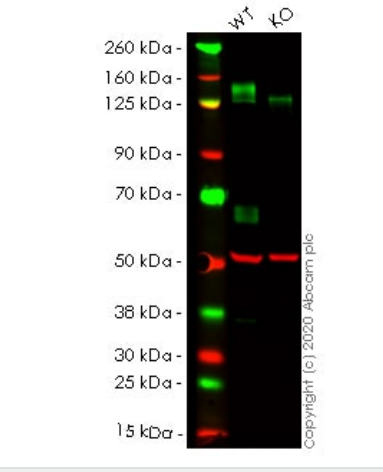
ab217671 was shown to react with CD130 (gp130) in wild-type A549 cells in western blot. Loss of signal was observed when knockout cell line **ab266939** (knockout cell lysate **ab257208**) was used. Wild-type A549 and IL6ST knockout A549 cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. **ab217671** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye®800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye®680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Indirect ELISA - Anti-CD130 (gp130) antibody [EPR21732] - BSA and Azide free (ab234105)

This data was developed using **ab217671**, the same antibody clone in a different buffer formulation.

ELISA analysis of IL6ST recombinant protein at 1000 ng/mL with **ab217671**. An Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at 1/2500 dilution was used as the secondary antibody.



Western blot - Anti-CD130 (gp130) antibody [EPR21732] - BSA and Azide free (ab234105)

All lanes : Anti-CD130 (gp130) antibody [EPR21732] (**ab217671**) at 1/1000 dilution

Lane 1 : Wild-type A549 cell lysate
Lane 2 : IL6ST knockout A549 cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

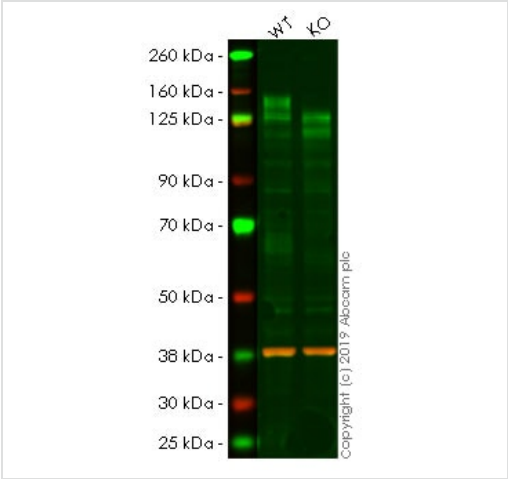
Predicted band size: 104 kDa
Observed band size: 130 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab217671**).

Lanes 1-2: Merged signal (red and green). Green - **ab217671** observed at 130 kDa. Red - loading control **ab7291** observed at 50 kDa.

ab217671 Anti-CD130 (gp130) antibody [EPR21732] was shown

to specifically react with CD130 (gp130) in wild-type A549 cells. Loss of signal was observed when knockout cell line **ab266938** (knockout cell lysate **ab257207**) was used. Wild-type and CD130 (gp130) knockout samples were subjected to SDS-PAGE. **ab217671** and Anti-alpha Tubulin antibody [DM1A] - Loading Control (**ab7291**) were incubated overnight at 4°C at 1 in 1000 and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-CD130 (gp130) antibody [EPR21732] - BSA and Azide free (ab234105)

All lanes : Anti-CD130 (gp130) antibody [EPR21732] (**ab217671**) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : IL6ST knockout HeLa cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

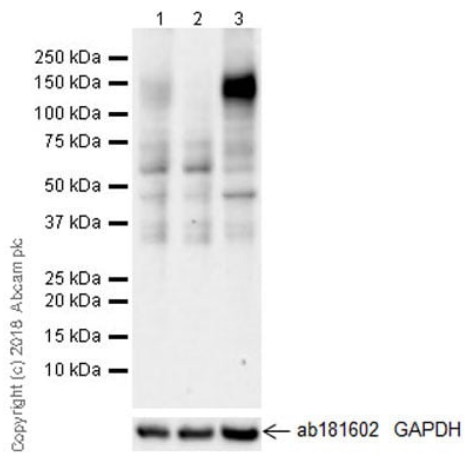
Predicted band size: 104 kDa
Observed band size: 130 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab217671**).

Lanes 1 - 2: Merged signal (red and green). Green - **ab217671** observed at 130 kDa. Red - loading control **ab8245** observed at 37 kDa.

ab217671 Anti-CD130 (gp130) antibody [EPR21732] was shown to specifically react with CD130 (gp130) in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265767** (knockout cell lysate **ab257205**) was used. Wild-type and CD130 (gp130) knockout samples were subjected to SDS-PAGE. **ab217671** and Anti-GAPDH antibody [6C5] - Loading Control were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-

Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-CD130 (gp130) antibody [EPR21732] - BSA and Azide free (ab234105)

All lanes : Anti-CD130 (gp130) antibody [EPR21732] (**ab217671**) at 1/1000 dilution

Lane 1 : Wild-type HAP1 (human chronic myelogenous leukemia cell line) whole cell lysate
Lane 2 : CD130 (gp130) knockout HAP1 whole cell lysate
Lane 3 : PC-3 (human prostate adenocarcinoma cell line) whole cell lysate

Lysates/proteins at 20 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: 104 kDa
Observed band size: 130 kDa

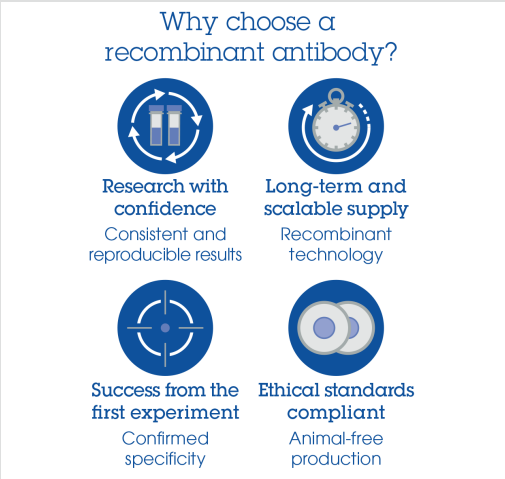
Exposure time: 114 seconds

locking and dilution buffer: 5% NFDM/TBST.

ab217671 was shown to specifically react with CD130 (gp130) in wild-type HAP1 cells as the signal was lost in CD130 (gp130) knockout cells. Wild-type and CD130 (gp130) knockout samples were subjected to SDS-PAGE. **ab217671** and **ab181602** (Human anti-GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/200000 dilution respectively. Blots were developed with Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (**ab97051**) secondary antibody at 1/100,000 dilution for 1 hour at room temperature before imaging. The blot was developed on a BIO-RAD® ChemiDoc™ MP instrument using the ECL technique.

This data was developed using the same antibody clone in a

different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab217671**).



Anti-CD130 (gp130) antibody [EPR21732] - BSA and Azide free (ab234105)

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