# abcam

## Product datasheet

# Anti-CSN7b antibody [EPR6464] ab133548

KO 評価済　リコンビナント　RabMAb

★★★★★ **1 Abreviews**　**2 References**　画像数 7

## 製品の概要

| | |
|---|---|
| 製品名 | Anti-CSN7b antibody [EPR6464] |
| 製品の詳細 | Rabbit monoclonal [EPR6464] to CSN7b |
| 由来種 | Rabbit |
| アプリケーション | **適用あり:** Flow Cyt (Intra), WB, IHC-P<br>**適用なし:** IP |
| 種交差性 | **交差種:** Mouse, Human<br>**交差が予測される動物種:** Rat ⚠ |
| 免疫原 | Synthetic peptide within Human CSN7b aa 50-150. The exact sequence is proprietary. |
| ポジティブ・コントロール | WB: HEK293T, HAP1, Jurkat and HeLa cell lysates. IHC-P: Human kidney tissue. |
| 特記事項 | This product is a recombinant monoclonal antibody, which offers several advantages including:<br><br>- High batch-to-batch consistency and reproducibility<br>- Improved sensitivity and specificity<br>- Long-term security of supply<br>- Animal-free production<br>For more information **see here**.<br><br>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

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|---|---|
| 製品の状態 | Liquid |
| 保存方法 | Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C. |
| 解離定数（$K_D$値） | $K_D$ = 1.12 x 10$^{-10}$ M |



**Learn more about $K_D$**

| | |
|---|---|
| バッファー | pH: 7.2 |

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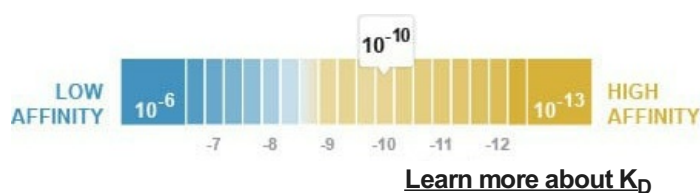
Preservative: 0.05% Sodium azide
Constituents: 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant

| | |
|---|---|
| **精製度** | Protein A purified |
| **ポリ/モノ** | モノクローナル |
| **クローン名** | EPR6464 |
| **アイソタイプ** | IgG |

## アプリケーション

**The Abpromise guarantee**   <u>Abpromise保証は、</u>次のテスト済みアプリケーションにおけるab133548の使用に適用されます
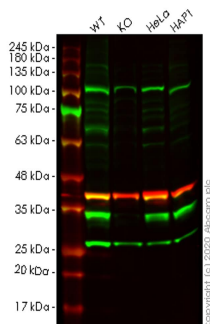
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

| アプリケーション | Abreviews | 特記事項 |
|---|---|---|
| **Flow Cyt (Intra)** | | 1/200. |
| **WB** | ★★★★★ (1) | 1/10000 - 1/50000. Detects a band of approximately 30 kDa (predicted molecular weight: 30 kDa). |
| **IHC-P** | | 1/250 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. |

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| **追加情報** | Is unsuitable for IP. |

## ターゲット情報

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|---|---|
| **機能** | Component of the COP9 signalosome complex (CSN), a complex involved in various cellular and developmental processes. The CSN complex is an essential regulator of the ubiquitin (Ubl) conjugation pathway by mediating the deneddylation of the cullin subunits of SCF-type E3 ligase complexes, leading to decrease the Ubl ligase activity of SCF-type complexes such as SCF, CSA or DDB2. The complex is also involved in phosphorylation of p53/TP53, JUN, I-kappa-B-alpha/NFKBIA, ITPK1 and IRF8/ICSBP, possibly via its association with CK2 and PKD kinases. CSN-dependent phosphorylation of TP53 and JUN promotes and protects degradation by the Ubl system, respectively. |
| **配列類似性** | Belongs to the CSN7/EIF3M family. CSN7 subfamily. <br> Contains 1 PCI domain. |
| **細胞内局在** | Cytoplasm. Nucleus. |

## 画像

Western blot - Anti-CSN7b antibody [EPR6464] (ab133548)

**All lanes :** Anti-CSN7b antibody [EPR6464] (ab133548) at 1/1000 dilution

**Lane 1 :** Wild-type HEK293T cell lysate
**Lane 2 :** COPS7B knockout HEK293T cell lysate
**Lane 3 :** HeLa cell lysate
**Lane 4 :** HAP1 cell lysate

Lysates/proteins at 20 µg per lane.

**Secondary**
**All lanes :** Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

**Predicted band size:** 30 kDa
**Observed band size:** 32 kDa

**Lanes 1-4:** Merged signal (red and green). Green - ab133548 observed at 32 kDa. Red - loading control **ab8245** observed at 36 kDa.

 ab133548 Anti-CSN7b antibody [EPR6464] was shown to specifically react with CSN7b in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266646** (knockout cell lysate **ab257895**) was used.  Wild-type and CSN7b knockout samples were subjected to SDS-PAGE.  ab133548 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) 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.
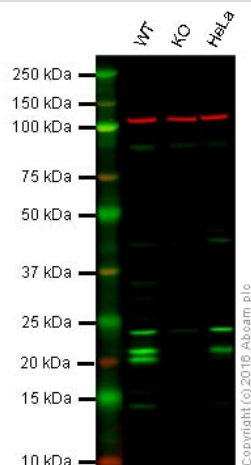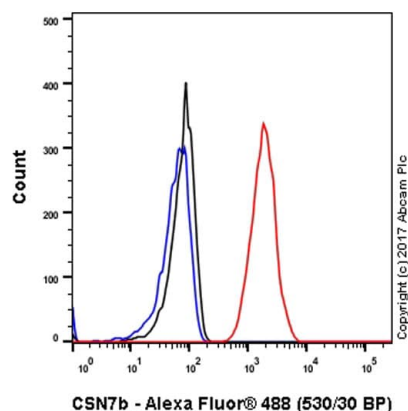
Western blot - Anti-CSN7b antibody [EPR6464] (ab133548)

**Lane 1**: Wild-type HAP1 cell lysate (20 µg)

**Lane 2**: CSN7b knockout HAP1 cell lysate (20 µg)

**Lane 3**: HeLa cell lysate (20 µg)

**Lanes 1 - 3**: Merged signal (red and green). Green - ab133548 observed at 32 kDa. Red - loading control, **ab18058**, observed at 124 kDa.

ab133548 was shown to specifically react with CSN7b when CSN7b knockout samples were used. Wild-type and CSN7b knockout samples were subjected to SDS-PAGE. ab133548 and **ab18058** (loading control to vinculin) were both diluted 1/10000 and incubated overnight at 4°C. 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 1/10000 dilution for 1 hour at room temperature before imaging.



Flow Cytometry (Intracellular) - Anti-CSN7b antibody [EPR6464] (ab133548)

Intracellular Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling CSN7b with unpurified ab133548 at 1/200 dilution (10ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti-rabbit IgG (Alexa Fluorr$^®$ 488) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) were used as the unlabeled control.
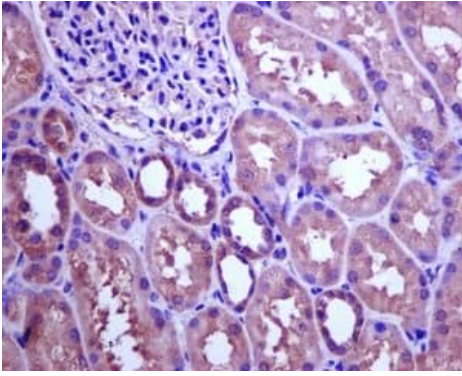
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CSN7b antibody [EPR6464] (ab133548)

Immunohistochemical analysis of paraffin embedded Human kidney tissue labelling CSN7b with ab133548 antibody at a dilution of 1/250.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
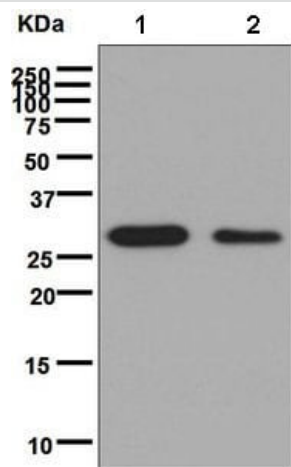


Western blot - Anti-CSN7b antibody [EPR6464] (ab133548)

**All lanes :** Anti-CSN7b antibody [EPR6464] (ab133548) at 1/10000 dilution

**Lane 1 :** Jurkat cell lysate
**Lane 2 :** HeLa cell lysate

Lysates/proteins at 10 μg per lane.

**Secondary**
**All lanes :** HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 30 kDa
**Observed band size:** 30 kDa

Ol-RD Scanning - Anti-CSN7b antibody [EPR6464] (ab133548)

Equilibrium disassociation constant ($K_D$)

Learn more about $K_D$

**Click here to learn more about $K_D$**

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

Anti-CSN7b antibody [EPR6464] (ab133548)

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

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