

### Anti-Chk1 antibody [E250] ab32531

リコンビナント RabMAb

★★★★☆ **4 Abreviews** **11 References** **画像数 7**

#### 製品の概要

製品名	Anti-Chk1 antibody [E250]
製品の詳細	Rabbit monoclonal [E250] to Chk1
由来種	Rabbit
アプリケーション	<b>適用あり:</b> Flow Cyt (Intra), IP, ICC/IF, WB <b>適用なし:</b> IHC
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Synthetic peptide within Human Chk1 aa 1-100 (N terminal). The exact sequence is proprietary.
ポジティブ・コントロール	IP: K-562 whole cell lysate. ICC/IF: HeLa cells. Flow Cyt (intra): K-562 cells. WB: K-562, HeLa, NIH/3T3, MEF and PC-12 whole cell lysates
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

#### 製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	E250

アプリケーション

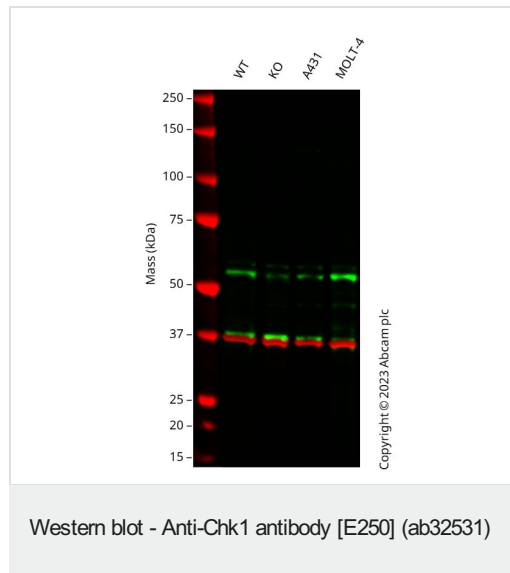
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab32531の使用に適用されず**  
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/30.
IP		1/20.
ICC/IF	★★★★☆ (2)	1/50.
WB	★★★★★ (2)	1/1000. Detects a band of approximately 54 kDa (predicted molecular weight: 54 kDa).

追加情報 Is unsuitable for IHC.

ターゲット情報

画像



**All lanes** : Anti-Chk1 antibody [E250] (ab32531) at 1/1000 dilution

- Lane 1** : Wild-type A549 cell lysate
- Lane 2** : CHEK1 knockout A549 cell lysate
- Lane 3** : A431 cell lysate
- Lane 4** : MOLT-4 cell lysate

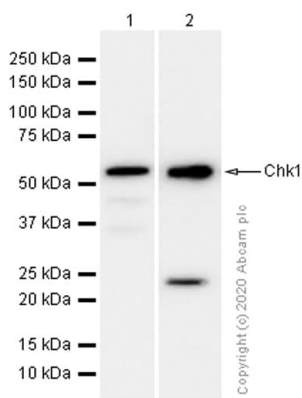
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

**Predicted band size:** 54 kDa  
**Observed band size:** 57 kDa

Anti-CHEK1 antibody [E250] (ab32531) staining at 1/1000 dilution, shown in green; Mouse anti-GAPDH antibody [6C5] (**ab8245**) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab32531 was shown to bind specifically to CHEK1. A

band was observed at 57 kDa in wild-type A549 cell lysates with a reduction in signal observed at this size in CHEK1 heterozygous knockout cell line. To generate this image, wild-type and CHEK1 heterozygous 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 3 % milk in TBS-0.1 % Tween<sup>®</sup> 20 (TBS-T) 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 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



Western blot - Anti-Chk1 antibody [E250] (ab32531)

**All lanes** : Anti-Chk1 antibody [E250] (ab32531) at 1/10000 dilution (Purified)

**Lane 1** : MEF (Mouse embryonic fibroblast (immortalized)) whole cell lysate

**Lane 2** : PC-12 (Rat adrenal gland pheochromocytoma ) whole cell lysate

Lysates/proteins at 15 µg per lane.

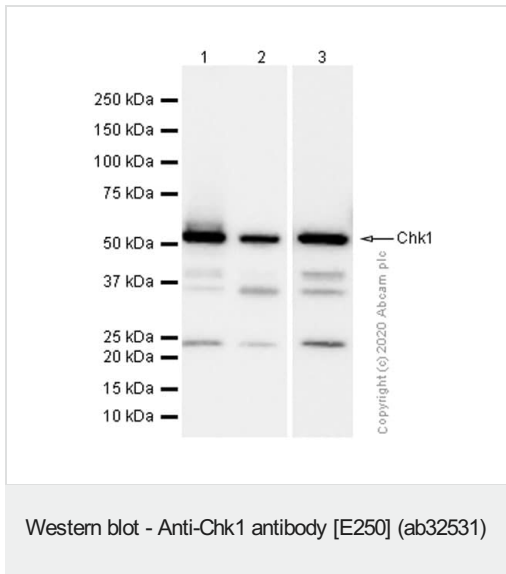
#### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

**Predicted band size:** 54 kDa

**Observed band size:** 54 kDa

We are unsure how to define the extra bands.



**All lanes** : Purified at 1/1000 dilution

**Lane 1** : K-562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate

**Lane 2** : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate

**Lane 3** : NIH/3T3 (Mouse embryonic fibroblast) whole cell lysate

Lysates/proteins at 20 µg per lane.

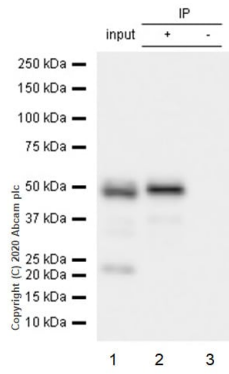
### Secondary

**All lanes** : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/20000 dilution

**Predicted band size:** 54 kDa

**Observed band size:** 54 kDa

We are unsure how to define the extra bands.



Immunoprecipitation - Anti-Chk1 antibody [E250] (ab32531)

Purified ab32531 at 1/20 dilution (1 µg) immunoprecipitating Chk1 in K-562 whole cell lysate.

Lane 1 (input): K-562 (Human chronic myelogenous leukemia lymphoblast) whole cell lysate 10 µg

Lane 2 (+): ab32531 + K-562 whole cell lysate.

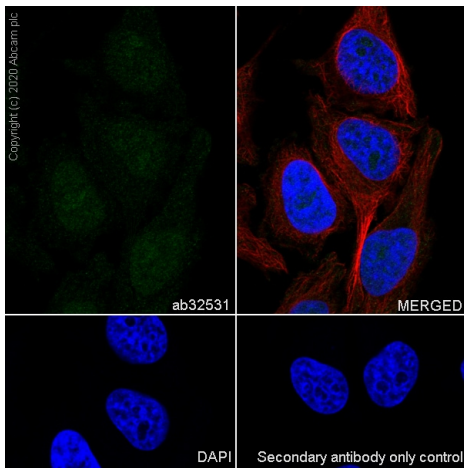
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab32531 in K-562 whole cell lysate.

VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.

Blocking Buffer and concentration: 5% NFDm/TBST.

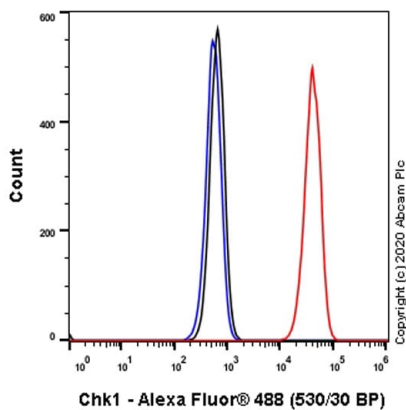
Diluting buffer and concentration: 5% NFDm/TBST.

Observed band size: 54 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Chk1 antibody [E250] (ab32531)

Immunocytochemistry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling Chk1 with purified ab32531 at 1/50 dilution (5.06 µg/mL). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



Flow Cytometry (Intracellular) - Anti-Chk1 antibody [E250] (ab32531)

Intracellular Flow Cytometry analysis of K-562 (Human chronic myelogenous leukemia lymphoblast) cells labeling Chk1 with purified ab32531 at 1/30 dilution (10 µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).

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Anti-Chk1 antibody [E250] (ab32531)

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