

### Anti-FANCA/FAA antibody [EPR16519-42] ab201458

KO 評価済 リコンビナント RabMAb

1 References 画像数 4

#### 製品の概要

製品名	Anti-FANCA/FAA antibody [EPR16519-42]
製品の詳細	Rabbit monoclonal [EPR16519-42] to FANCA/FAA
由来種	Rabbit
アプリケーション	適用あり: 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: HeLa, 293, Jurkat and A431 whole cell lysates; Human colon and fetal kidney 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: 7.2 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	EPR16519-42
アイソタイプ	IgG

## アプリケーション

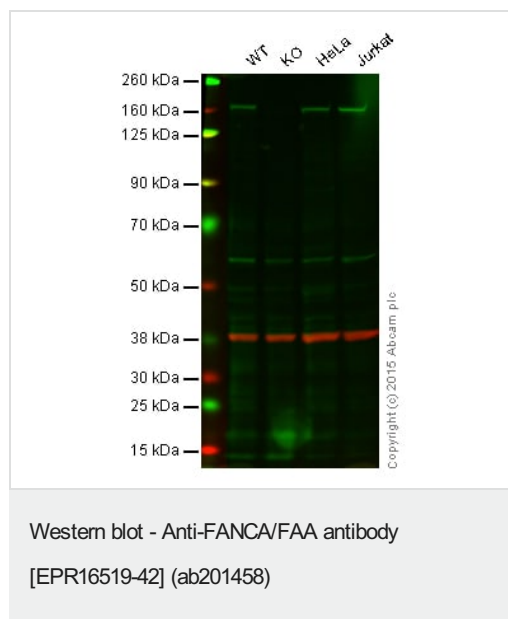
**The Abpromise guarantee** Abpromise保証は、次のテスト済みアプリケーションにおけるab201458の使用に適用されず  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/1000. Detects a band of approximately 163 kDa (predicted molecular weight: 163 kDa).

## ターゲット情報

<b>機能</b>	DNA repair protein that may operate in a postreplication repair or a cell cycle checkpoint function. May be involved in interstrand DNA cross-link repair and in the maintenance of normal chromosome stability.
<b>関連疾患</b>	Defects in FANCA are a cause of Fanconi anemia (FA) [MIM:227650]. FA is a genetically heterogeneous, autosomal recessive disorder characterized by progressive pancytopenia, a diverse assortment of congenital malformations, and a predisposition to the development of malignancies. At the cellular level it is associated with hypersensitivity to DNA-damaging agents, chromosomal instability (increased chromosome breakage), and defective DNA repair.
<b>翻訳後修飾</b>	Phosphorylated upon DNA damage, probably by ATM or ATR. Phosphorylation is required for the formation of the nuclear complex. Not phosphorylated in cells derived from groups A, B, C, E, F, G, and H.
<b>細胞内局在</b>	Nucleus. Cytoplasm. The major form is nuclear. The minor form is cytoplasmic.

## 画像



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

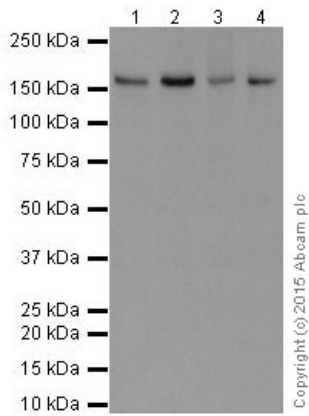
**Lane 2:** ProteinX knockout HAP1 cell lysate (20 µg)

**Lane 3:** HeLa cell lysate (20 µg)

**Lane 4:** Jurkat cell lysate (20 µg)

**Lanes 1 - 4:** Merged signal (red and green). Green - ab201458 observed at 163 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab201458 was shown to recognize FANCA/FAA when FANCA/FAA knockout samples were used, along with additional cross-reactive bands. Wild-type and FANCA/FAA knockout samples were subjected to SDS-PAGE. ab201458 and **ab8245** (loading control to GAPDH) were diluted 1/10 000 and 1/2000 respectively 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 1/10 000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-FANCA/FAA antibody  
[EPR16519-42] (ab201458)

**All lanes** : Anti-FANCA/FAA antibody [EPR16519-42] (ab201458)  
at 1/10000 dilution

**Lane 1** : HeLa (Human epithelial cells from cervix  
adenocarcinoma) whole cell lysate

**Lane 2** : 293 (Human embryonic kidney) whole cell lysate

**Lane 3** : Jurkat (Human T cell leukemia cells from peripheral blood)  
whole cell lysate

**Lane 4** : A431 (Human epidermoid carcinoma) whole cell lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

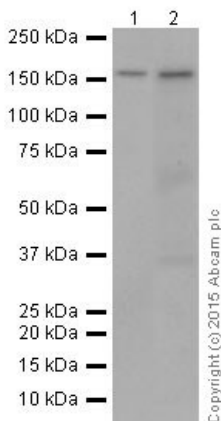
**All lanes** : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at  
1/1000 dilution

**Predicted band size:** 163 kDa

**Observed band size:** 163 kDa

**Exposure time:** 1 minute

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-FANCA/FAA antibody  
[EPR16519-42] (ab201458)

**All lanes** : Anti-FANCA/FAA antibody [EPR16519-42] (ab201458)  
at 1/1000 dilution

**Lane 1** : Human colon tissue lysate

**Lane 2** : Human fetal kidney tissue lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes** : Anti-Rabbit IgG (HRP), specific to the non-reduced form  
of IgG at 1/1000 dilution

**Predicted band size:** 163 kDa

**Observed band size:** 163 kDa

**Exposure time:** 3 minutes

## 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-FANCA/FAA antibody [EPR16519-42]  
(ab201458)

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

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