

Anti-Alas1 antibody [EPR10247] - Mitochondrial Marker ab154860

KO 評価済 リコンビナント RabMAb

★★★★★ [1 Abreviews](#) [6 References](#) [画像数 7](#)

製品の概要

製品名	Anti-Alas1 antibody [EPR10247] - Mitochondrial Marker
製品の詳細	Rabbit monoclonal [EPR10247] to Alas1 - Mitochondrial Marker
由来種	Rabbit
アプリケーション	適用あり: WB, ICC/IF 適用なし: IHC-P
種交差性	交差種: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: HeLa, HEK-293, HepG2, K562, JAR and Raji cell lysate. ICC/IF: HepG2 cells.
特記事項	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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
バッファー	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR10247
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ab154860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。

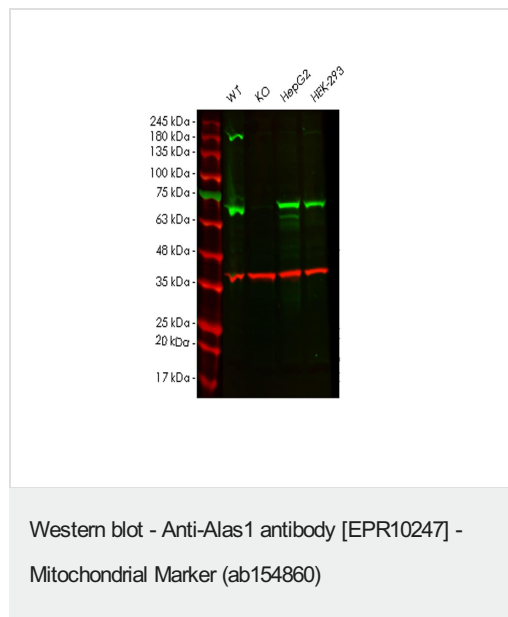
アプリケーション	Abreviews	特記事項
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 71 kDa.
ICC/IF		1/100 - 1/500.

追加情報 Is unsuitable for IHC-P.

ターゲット情報

パスウェイ Porphyrin metabolism; protoporphyrin-IX biosynthesis; 5-aminolevulinate from glycine: step 1/1.
配列類似性 Belongs to the class-II pyridoxal-phosphate-dependent aminotransferase family.
細胞内局在 Mitochondrion matrix.

画像



All lanes : Anti-Asas1 antibody [EPR10247] - Mitochondrial Marker (ab154860) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : ALAS1 knockout HeLa cell lysate
Lane 3 : HepG2 cell lysate
Lane 4 : HEK-293 cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

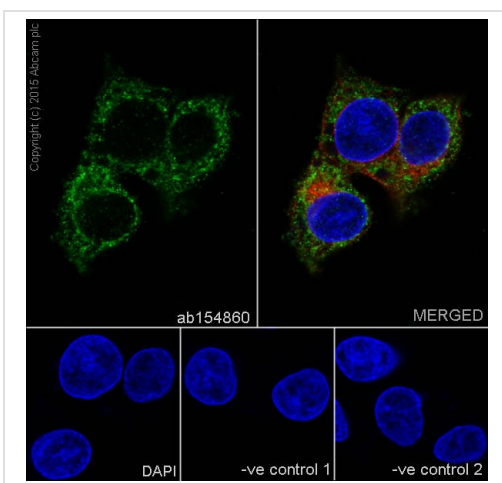
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

Predicted band size: 71 kDa

Observed band size: 71 kDa

Lanes 1-4: Merged signal (red and green). Green - ab154860 observed at 71 kDa. Red - loading control [ab8245](#) observed at 36 kDa.

ab154860 Anti-Alas1 antibody [EPR10247] was shown to specifically react with Alas1 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab266473** (knockout cell lysate **ab257348**) was used. Wild-type and Alas1 knockout samples were subjected to SDS-PAGE. ab154860 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.

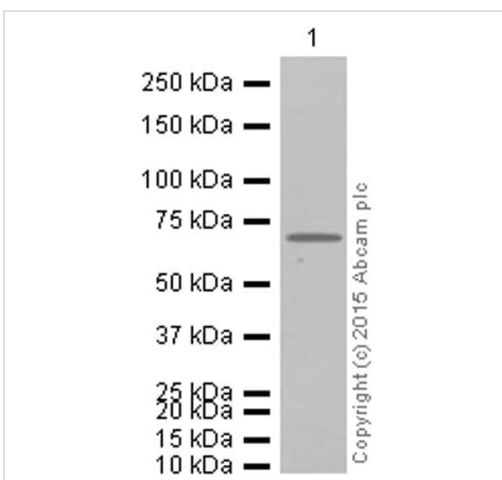


Immunocytochemistry/ Immunofluorescence - Anti-Alas1 antibody [EPR10247] - Mitochondrial Marker (ab154860)

Immunocytochemistry/Immunofluorescence analysis of HepG2 cells labelling Alas1 with purified ab154860 at a dilution of 1/100. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. **ab7291**, a mouse anti-tubulin (1/1000) and **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) were also used.

Control 1: primary antibody (1/100) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000).

Control 2: **ab7291** (1/1000) and secondary antibody, **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000).



Western blot - Anti-Alas1 antibody [EPR10247] - Mitochondrial Marker (ab154860)

Anti-Alas1 antibody [EPR10247] - Mitochondrial Marker (ab154860) at 1/10000 dilution (purified) + HepG2 whole cell lysate at 10 µg

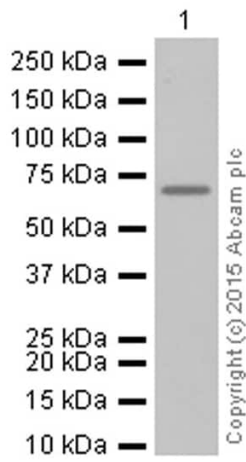
Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Predicted band size: 71 kDa

Observed band size: 71 kDa

Blocking and dilution buffer: 5% NFD/MTBST



Western blot - Anti-Alas1 antibody [EPR10247] - Mitochondrial Marker (ab154860)

Anti-Alas1 antibody [EPR10247] - Mitochondrial Marker (ab154860) at 1/10000 dilution (purified) + Raji whole cell lysate at 10 µg

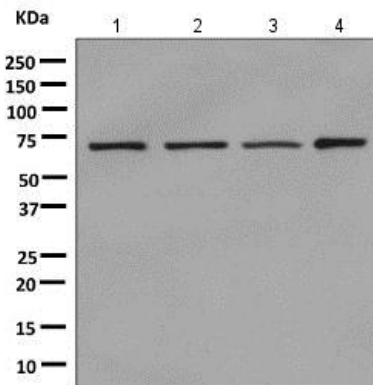
Secondary

Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Predicted band size: 71 kDa

Observed band size: 71 kDa

Blocking and dilution buffer: 5% NFDm/TBST



Western blot - Anti-Alas1 antibody [EPR10247] - Mitochondrial Marker (ab154860)

All lanes : Anti-Alas1 antibody [EPR10247] - Mitochondrial Marker (ab154860) at 1/1000 dilution (unpurified)

Lane 1 : HepG2 cell lysate

Lane 2 : K562 cell lysate

Lane 3 : JAR cell lysate

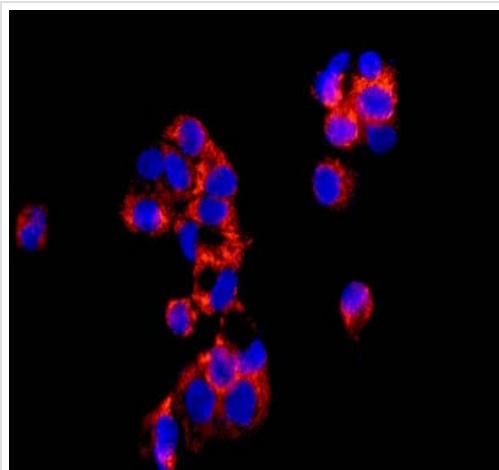
Lane 4 : Raji cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

Predicted band size: 71 kDa



Immunocytochemistry/Immunofluorescence analysis of HepG2 cells labeling Alas1 with unpurified ab154860 at a dilution of 1/250.

Immunocytochemistry/ Immunofluorescence - Anti-Alas1 antibody [EPR10247] - Mitochondrial Marker (ab154860)

Why choose a recombinant antibody?

 <p>Research with confidence Consistent and reproducible results</p>	 <p>Long-term and scalable supply Recombinant technology</p>
 <p>Success from the first experiment Confirmed specificity</p>	 <p>Ethical standards compliant Animal-free production</p>

Anti-Alas1 antibody [EPR10247] - Mitochondrial Marker (ab154860)

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