abcam

Product datasheet

Anti-Cytochrome C antibody [EPR1327] - BSA and Azide free ab218312

リコンビナント RabMAb

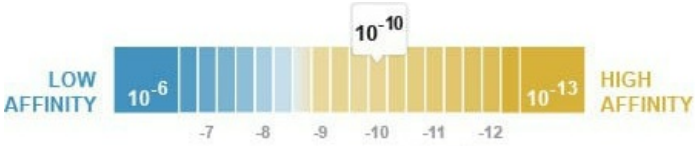
8 References 画像数 9

製品の概要

製品名	Anti-Cytochrome C antibody [EPR1327] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR1327] to Cytochrome C - BSA and Azide free
由来種	Rabbit
アプリケーション	**適用あり:** WB, IP, IHC-P, ICC/IF
種交差性	**交差種:** Mouse, Rat, 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	Molt4, SH-SY5Y, Human heart, Human kidney and Human spleen lysates. Human kidney tissue.
特記事項	ab218312 is the carrier-free version of **ab133504**. 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.
解離定数（K_D 値）	$K_D = 1.29 \times 10^{-10}$ M



Learn more about K_D

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	EPR1327
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ab218312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		Use at an assay dependent concentration. Detects a band of approximately 14 kDa (predicted molecular weight: 11 kDa).
IP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**.
ICC/IF		Use at an assay dependent concentration.

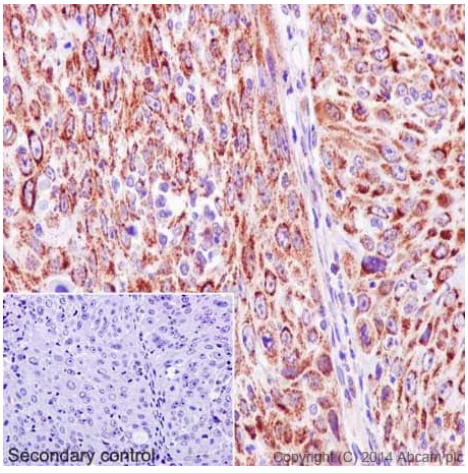
ターゲット情報

機能

Electron carrier protein. The oxidized form of the cytochrome c heme group can accept an electron from the heme group of the cytochrome c1 subunit of cytochrome reductase. Cytochrome c then transfers this electron to the cytochrome oxidase complex, the final protein carrier in the mitochondrial electron-transport chain.
Plays a role in apoptosis. Suppression of the anti-apoptotic members or activation of the pro-apoptotic members of the Bcl-2 family leads to altered mitochondrial membrane permeability resulting in release of cytochrome c into the cytosol. Binding of cytochrome c to Apaf-1 triggers the activation of caspase-9, which then accelerates apoptosis by activating other caspases.

関連疾患	Defects in CYCS are the cause of thrombocytopenia type 4 (THC4) [MIM:612004]; also known as autosomal dominant thrombocytopenia type 4. Thrombocytopenia is the presence of relatively few platelets in blood. THC4 is a non-syndromic form of thrombocytopenia. Clinical manifestations of thrombocytopenia are absent or mild. THC4 may be caused by dysregulated platelet formation.
配列類似性	Belongs to the cytochrome c family.
翻訳後修飾	Binds 1 heme group per subunit.
細胞内局在	Mitochondrion matrix.

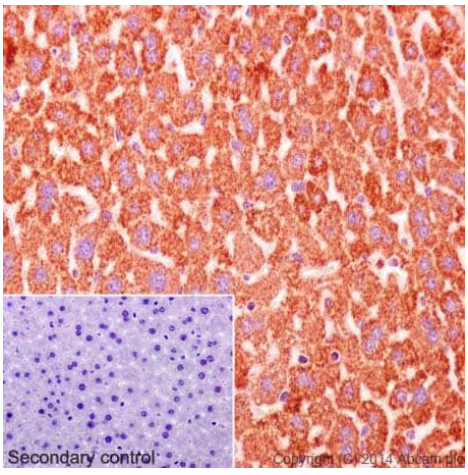
画像



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytochrome C antibody [EPR1327] - BSA and Azide free (ab218312)

Immunohistochemical staining of paraffin embedded human cervical carcinoma with purified **ab133504** at a working dilution of 1 in 500. The secondary antibody used is a HRP goat anti-rabbit H+L (**ab97051**). The sample is counter-stained with hematoxylin. Antigen retrieval was perfomed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

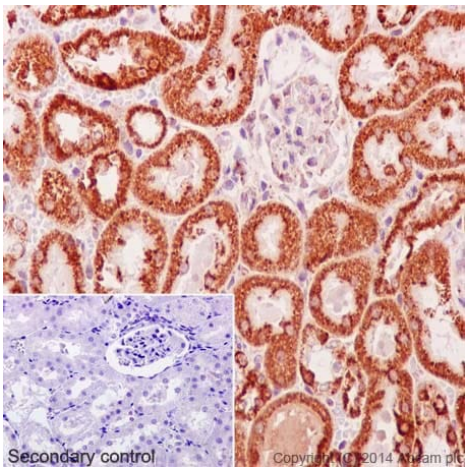
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab133504**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytochrome C antibody [EPR1327] - BSA and Azide free (ab218312)

Immunohistochemical staining of paraffin embedded mouse liver with purified **ab133504** at a working dilution of 1 in 500. The secondary antibody used is a HRP goat anti-rabbit H+L (**ab97051**). The sample is counter-stained with hematoxylin. Antigen retrieval was perfomed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

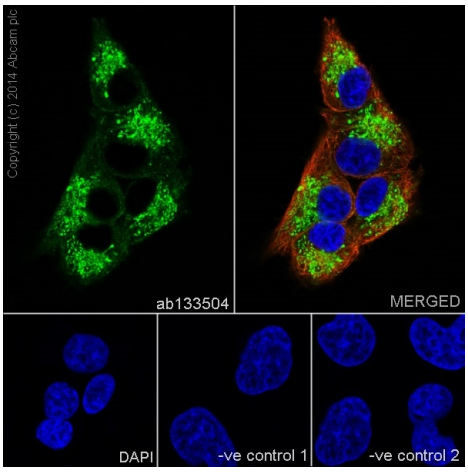
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab133504**).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytochrome C antibody [EPR1327] - BSA and Azide free (ab218312)

Immunohistochemical staining of paraffin embedded rat kidney with purified **ab133504** at a working dilution of 1 in 500. The secondary antibody used is a HRP goat anti-rabbit H+L (**ab97051**). The sample is counter-stained with hematoxylin. Antigen retrieval was perfomed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

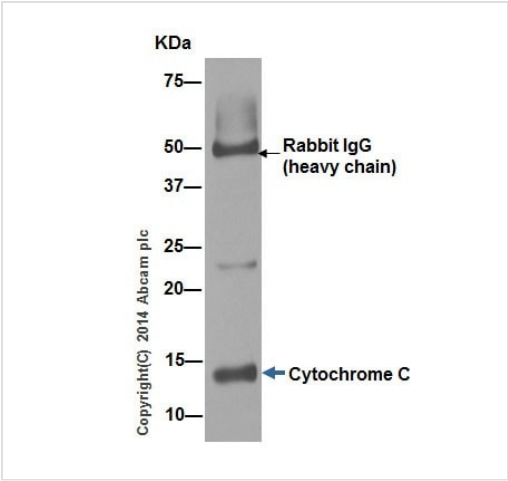
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab133504**).



Immunocytochemistry/ Immunofluorescence - Anti-Cytochrome C antibody [EPR1327] - BSA and Azide free (ab218312)

Immunofluorescence staining of SH-SY5Y cells with purified **ab133504** at a working dilution of 1 in 100, counter-stained with DAPI. The secondary antibody was Alexa Fluor® 488 goat anti rabbit (**ab150077**), used at a dilution of 1 in 500. **ab7291** was used to stain tubulin, and this is shown in the top right hand panel. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative control is shown in bottom middle and right hand panels - for the negative controls, purified **ab133504** was used at a dilution of 1/200 followed by an Alexa Fluor® 594 goat anti-mouse antibody at a dilution of 1/500.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab133504**).



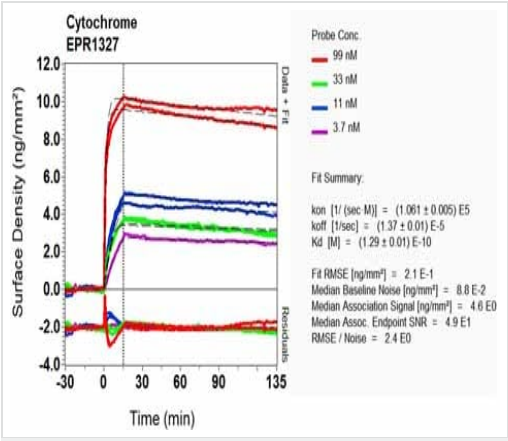
Immunoprecipitation - Anti-Cytochrome C antibody [EPR1327] - BSA and Azide free (ab218312)

ab133504 (purified) at 1/30 immunoprecipitating Cytochrome C in Molt-4 cells (Lane 1). For western blotting, a HRP-conjugated goat anti-rabbit (H+L), was used as the secondary antibody (1/1000).

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab133504**).



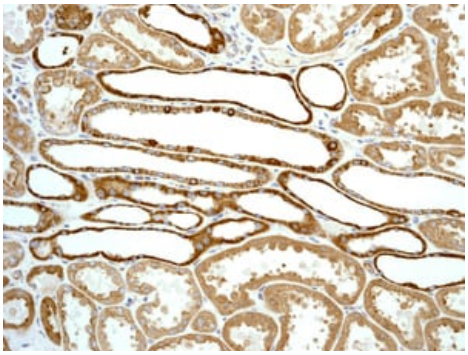
OI-RD Scanning - Anti-Cytochrome C antibody [EPR1327] - BSA and Azide free (ab218312)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab133504**).

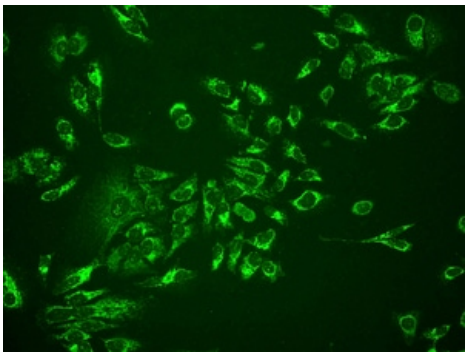


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytochrome C antibody [EPR1327] - BSA and Azide free (ab218312)

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labelling Cytochrome C with unpurified **ab133504** at 1/250 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab133504**).

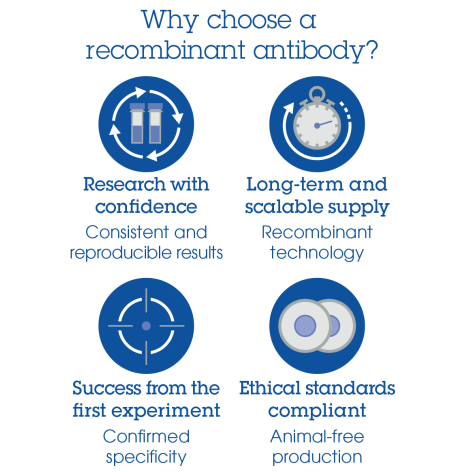
Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-Cytochrome C antibody [EPR1327] - BSA and Azide free (ab218312)

Immunofluorescent analysis of HeLa cells labelling Cytochrome C with unpurified **ab133504** at 1/100 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab133504**).



Anti-Cytochrome C antibody [EPR1327] - BSA and Azide free (ab218312)

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