abcam

Product datasheet

Anti-Cytochrome C antibody [EP1326-80-5] ab76107

リコンビナント RabMAb

4 Abreviews 7 References 画像数 5

製品の概要

製品名	Anti-Cytochrome C antibody [EP1326-80-5]
製品の詳細	Rabbit monoclonal [EP1326-80-5] to Cytochrome C
由来種	Rabbit
アプリケーション	**適用あり:** WB, IHC-P, mIHC **適用なし:** Flow Cyt
種交差性	**交差種:** Mouse, Human, African green monkey **交差が予測される動物種:** Rat
免疫原	Synthetic peptide within Human Cytochrome C (N terminal). The exact sequence is proprietary.
ポジティブ・コントロール	WB: HeLa, COS and L929 cell lysates. IHC-P: human kidney tissue. mIHC: Human parathyroid gland tissue.
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 -20°C. Stable for 12 months at -20°C.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 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	EP1326-80-5
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ab76107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	★★★★★ (2)	1/500. Predicted molecular weight: 12 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
mIHC		Use at an assay dependent concentration.

追加情報 Is unsuitable for Flow Cyt.

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.

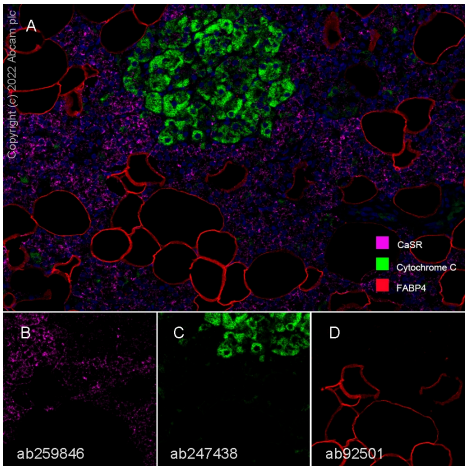
関連疾患 Defects in CYCS are the cause of thrombocytopenia type 4 (THC4) [MIM:612004]; also known as autosomal dominant thrombocytopenia type 4. Thrombocytopenia is the presence of relatively few platelets in blood. THC4 is a non-syndromic form of thrombocytopenia. Clinical manifestations of thrombocytopenia 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



Multiplex immunohistochemistry - Anti-Cytochrome C antibody [EP1326-80-5] (ab76107)

Fluorescence multiplex immunohistochemical analysis of the Human parathyroid gland (Formalin/PFA-fixed paraffin-embedded sections).

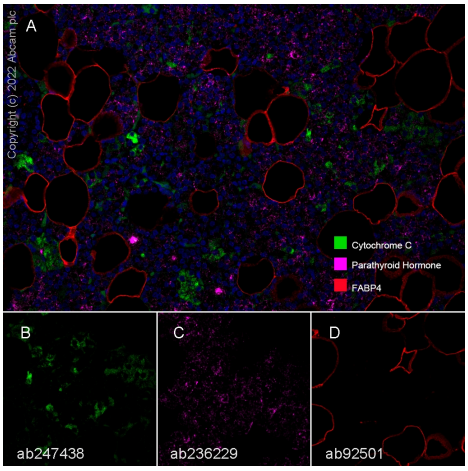
Panel A: merged staining of anti-CaSR (**ab259846**, magenta; Opal™690), anti-Cytochrome C (**ab247438**, green; Opal™520) and anti-FABP4 (**ab92501**, red; Opal™570) on human parathyroid gland. Panel B: anti-CaSR stained on parathyroid chief cells. Panel C: anti-Cytochrome C stained on parathyroid oxyphil cells. Panel D: anti-FABP4 stained on adipocytes. Opal Polymer HRP Ms + Rb was used as a secondary antibody.

The section was incubated in three rounds of staining: in the order of **ab259846** at 1/5000 dilution (0.103 µg/ml), **ab247438** at 1/5000 dilution (0.195 µg/ml), and **ab92501** at 1/10000 dilution (0.047 µg/ml) for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0, epitope retrieval solution2) for 20 mins. DAPI (blue) was used as a nuclear counter stain.

This data was developed using **ab247438**, the same antibody clone in a different buffer formulation.



Multiplex immunohistochemistry - Anti-Cytochrome C antibody [EP1326-80-5] (ab76107)

Fluorescence multiplex immunohistochemical analysis of the human parathyroid gland (Formalin/PFA-fixed paraffin-embedded sections).

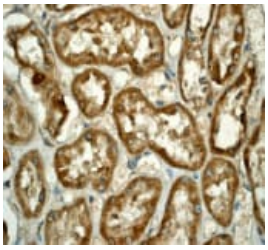
Panel A: merged staining of anti-Parathyroid Hormone (**ab236229**, magenta; Opal™690), anti-Cytochrome C (**ab247438**, green; Opal™520) and anti-FABP4 (**ab92501**, red; Opal™570) on human parathyroid gland. Panel B: anti-Cytochrome C stained on parathyroid oxyphil cells. Panel C: anti-Parathyroid Hormone stained on parathyroid chief cells. Panel D: anti-FABP4 stained on adipocytes. Opal Polymer HRP Ms + Rb was used as a secondary antibody.

The section was incubated in three rounds of staining: in the order of **ab236229** at 1/200 dilution (5.065 µg/ml) for 10 mins, then **ab247438** at 1/5000 dilution (0.195 µg/ml) and **ab92501** at 1/10000 dilution (0.047 µg/ml) for 30 mins at room temperature. Each round was followed by a separate fluorescent tyramide signal amplification system.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument with an Opal™ 4-color kit. Image acquisition was performed with Leica SP8 confocal microscope.

Heat mediated antigen retrieval was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins. DAPI (blue) was used as a nuclear counter stain.

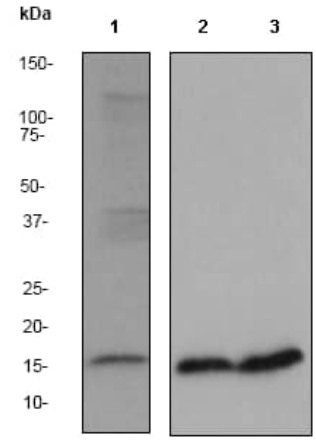
This data was developed using **ab247438**, the same antibody clone in a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Cytochrome C antibody [EP1326-80-5] (ab76107)

ab76107 at 1/100 dilution staining Cytochrome C in human kidney by Immunohistochemistry using paraffin-embedded tissue.

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



Western blot - Anti-Cytochrome C antibody [EP1326-80-5] (ab76107)

All lanes : Anti-Cytochrome C antibody [EP1326-80-5] (ab76107) at 1/200 dilution

Lane 1 : HeLa cell lysate
Lane 2 : COS cell lysate
Lane 3 : L929 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
Lanes 1-2 : Goat anti-rabbit HRP at 1/2000 dilution
Lane 3 : goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 12 kDa
Observed band size: 15 kDa

Anti-Cytochrome C antibody [EP1326-80-5] (ab76107)

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