


Product datasheet

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

Recombinant RabMAb

★★★★☆ [4 Abreviews](#) [7 References](#) [5 Images](#)

Overview

Product name	Anti-Cytochrome C antibody [EP1326-80-5]
Description	Rabbit monoclonal [EP1326-80-5] to Cytochrome C
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, mIHC Unsuitable for: Flow Cyt
Species reactivity	Reacts with: Mouse, Human, African green monkey Predicted to work with: Rat 
Immunogen	Synthetic peptide within Human Cytochrome C (N terminal). The exact sequence is proprietary.
Positive control	WB: HeLa, COS and L929 cell lysates. IHC-P: human kidney tissue. mIHC: Human parathyroid gland tissue.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal

Clone number EP1326-80-5
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab76107 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

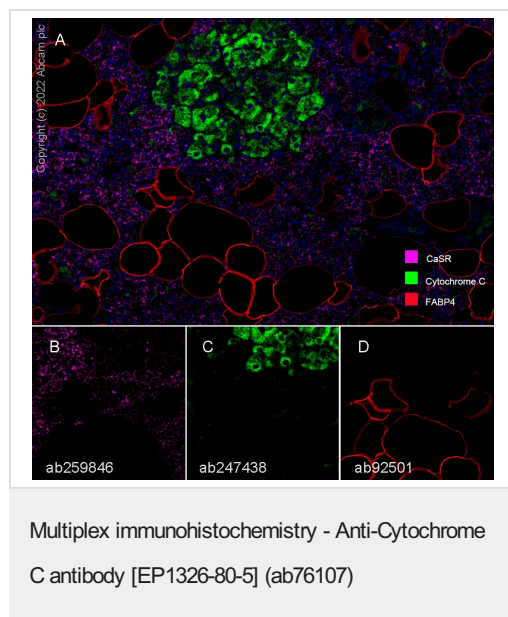
Application	Abreviews	Notes
WB	★★★★★ (2)	1/500. Predicted molecular weight: 12 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
mlHC		Use at an assay dependent concentration.

Application notes Is unsuitable for Flow Cyt.

Target

Function	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.
Involvement in disease	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.
Sequence similarities	Belongs to the cytochrome c family.
Post-translational modifications	Binds 1 heme group per subunit.
Cellular localization	Mitochondrion matrix.

Images



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

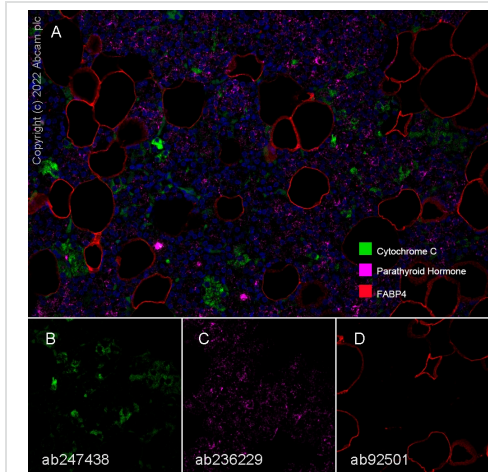
Panel A: merged staining of anti-CaSR (**ab259846**, magenta; Opal™690), anti-Cytochrome C (**ab247438**, green; Opal™520) and anti-FABP4 (**ab92501**, red; Opal™570) on human parathyroid gland. Panel B: anti-CaSR stained on parathyroid chief cells. Panel C: anti-Cytochrome C stained on parathyroid oxyphil 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).

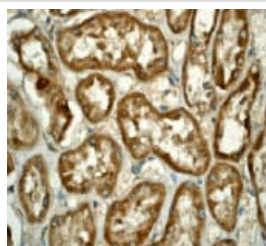
Panel A: merged staining of anti-Parathyroid Hormone ([ab236229](#), magenta; Opal™690), anti-Cytochrome C ([ab247438](#), green; Opal™520) and anti-FABP4 ([ab92501](#), red; Opal™570) on human parathyroid gland. Panel B: anti-Cytochrome C stained on parathyroid oxyphil cells. Panel C: anti-Parathyroid 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.

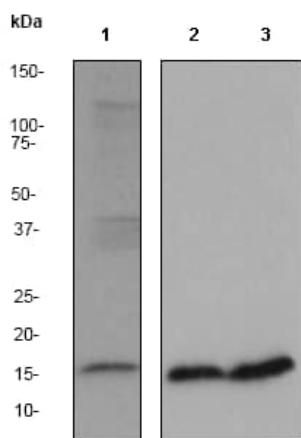
This data was developed using [ab247438](#), the same antibody clone in a different buffer formulation.



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

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

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors