

Product datasheet

Anti-Citrate synthetase antibody [EPR8067] α b129095

Recombinant RabMAb

★★★★★ [1 Abreviews](#) [40 References](#) [11 Images](#)

Overview

Product name	Anti-Citrate synthetase antibody [EPR8067]
Description	Rabbit monoclonal [EPR8067] to Citrate synthetase
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide within Human Citrate synthetase aa 400-500. The exact sequence is proprietary. Database link: O75390
Positive control	WB: Mouse small intestine tissue lysate - total protein (ab7939), HepG2, Caco-2, 293T, and HeLa whole cell lysate (ab150035) and mouse spleen, mouse brain and rat kidney tissue lysates. IHC-P: Human kidney, human thyroid, mouse colon and rat kidney tissues. ICC/IF: HeLa cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <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 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 .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR8067
Isotype IgG

Applications

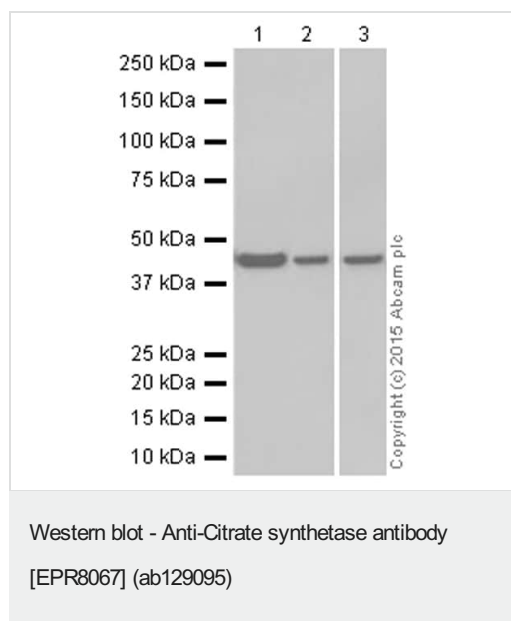
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab129095 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB	★★★★★ (1)	1/1000 - 1/10000. Detects a band of approximately 45 kDa (predicted molecular weight: 51 kDa).
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See IHC antigen retrieval protocols .
ICC/IF		1/100 - 1/500.

Target

Pathway Carbohydrate metabolism; tricarboxylic acid cycle; isocitrate from oxaloacetate: step 1/2.
Sequence similarities Belongs to the citrate synthase family.
Cellular localization Mitochondrion matrix.

Images



All lanes : Anti-Citrate synthetase antibody [EPR8067] (ab129095) at 1/10000 dilution (purified)

Lane 1 : HepG2 whole cell lysate
Lane 2 : Caco-2 whole cell lysate
Lane 3 : HeLa whole cell lysate

Lysates/proteins at 20 µg per lane.

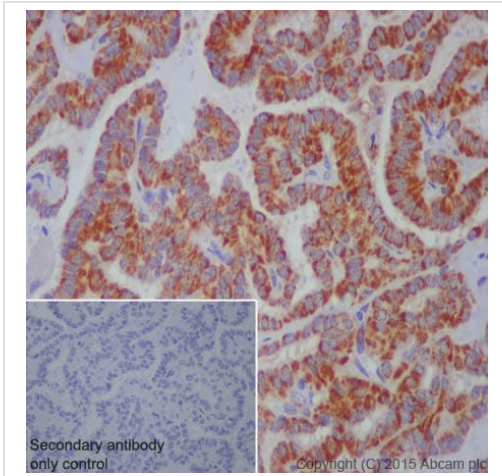
Secondary

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

Predicted band size: 51 kDa

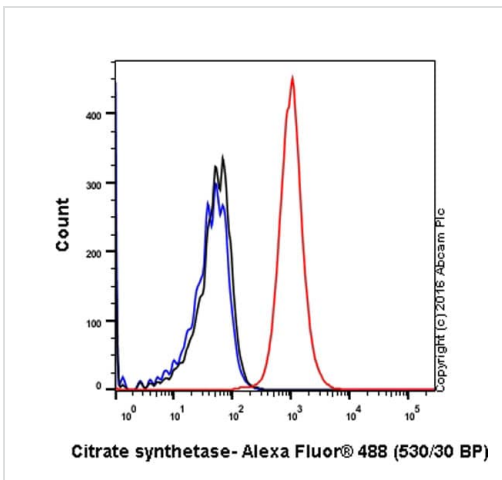
Observed band size: 45 kDa

Blocking and dilution buffer: 5% NFDm/TBST.



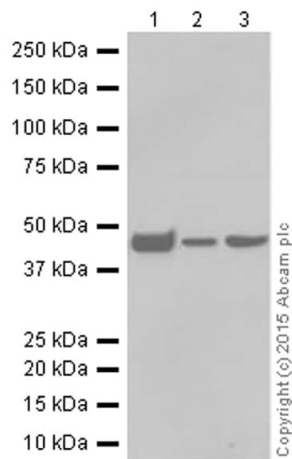
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Citrate synthetase antibody [EPR8067] (ab129095)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human thyroid carcinoma tissue labelling Citrate synthetase with purified ab129095 at a dilution of 1/250. Heat mediated antigen retrieval was performed using EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Flow Cytometry (Intracellular) - Anti-Citrate synthetase antibody [EPR8067] (ab129095)

Intracellular Flow Cytometry analysis of HeLa (human cervix adenocarcinoma) cells labeling Citrate synthetase with purified ab129095 at 1/20 dilution (10ug/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488) (1/2000 dilution) was used as the secondary antibody. Rabbit monoclonal IgG (Black) was used as the isotype control, cells without incubation with primary antibody and secondary antibody (Blue) was used as the unlabeled control.



Western blot - Anti-Citrate synthetase antibody [EPR8067] (ab129095)

All lanes : Anti-Citrate synthetase antibody [EPR8067] (ab129095) at 1/10000 dilution (purified)

Lane 1 : Mouse brain tissue lysate

Lane 2 : Mouse spleen tissue lysate

Lane 3 : Rat kidney tissue lysate

Lysates/proteins at 20 µg per lane.

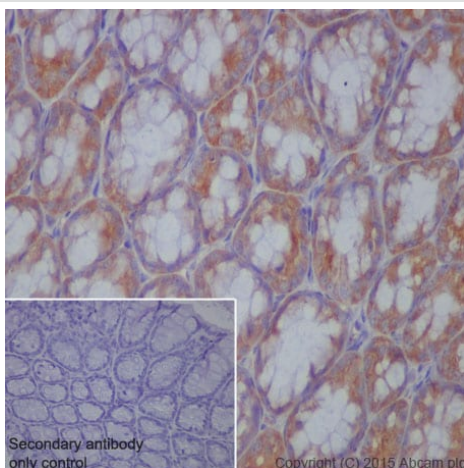
Secondary

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

Predicted band size: 51 kDa

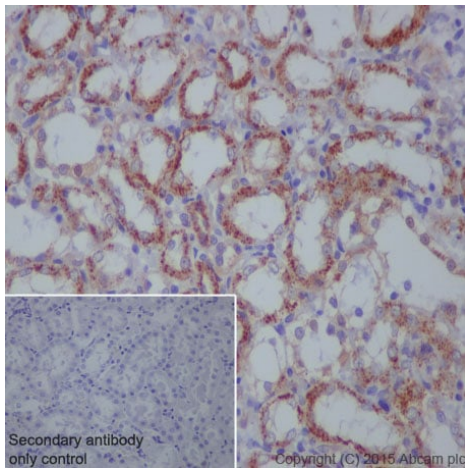
Observed band size: 45 kDa

Blocking and dilution buffer: 5% NFDm/TBST.



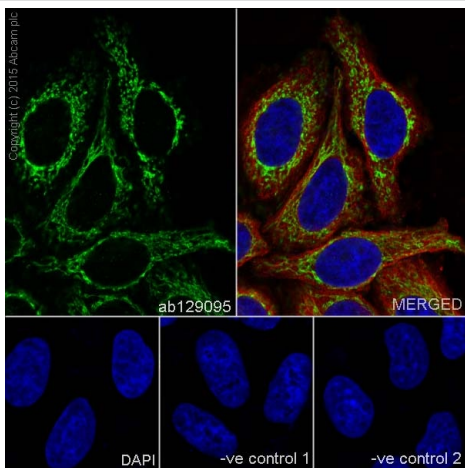
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Citrate synthetase antibody [EPR8067] (ab129095)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse colon tissue labelling Citrate synthetase with purified ab129095 at a dilution of 1/250. Heat mediated antigen retrieval was performed using EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Citrate synthetase antibody [EPR8067] (ab129095)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat kidney tissue labelling Citrate synthetase with purified ab129095 at a dilution of 1/250. Heat mediated antigen retrieval was performed using EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

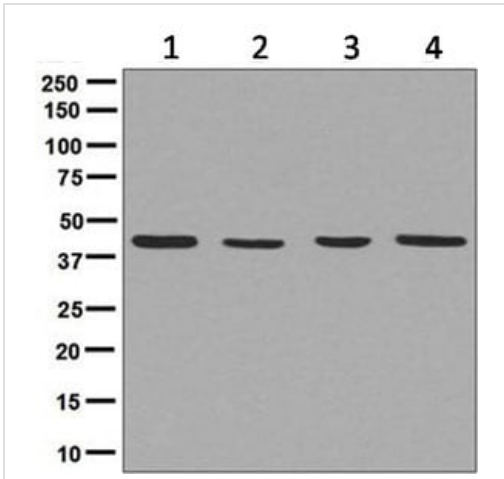


Immunocytochemistry/ Immunofluorescence - Anti-Citrate synthetase antibody [EPR8067] (ab129095)

Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling Citrate synthetase with purified ab129095 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-Citrate synthetase antibody [EPR8067] (ab129095)

All lanes : Anti-Citrate synthetase antibody [EPR8067] (ab129095) at 1/1000 dilution (unpurified)

Lane 1 : HepG2 cell lysates

Lane 2 : Caco-2 cell lysates

Lane 3 : 293T cell lysates

Lane 4 : HeLa cell lysates

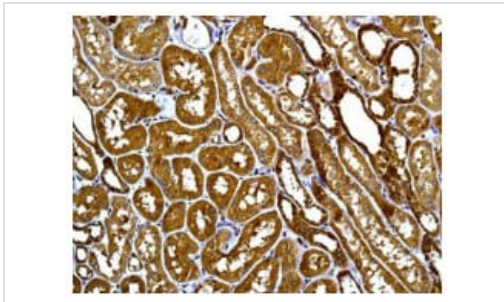
Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 51 kDa

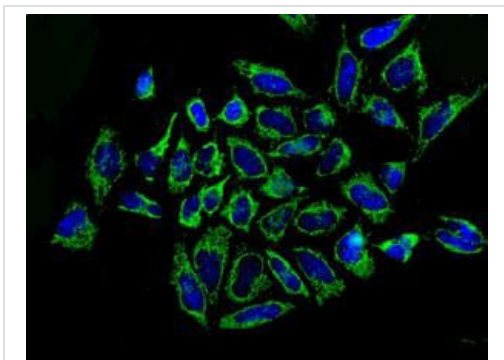
Observed band size: 51 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Citrate synthetase antibody [EPR8067] (ab129095)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue labelling Citrate synthetase with unpurified ab129095 at a dilution of 1/250.

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



Immunocytochemistry/ Immunofluorescence - Anti-Citrate synthetase antibody [EPR8067] (ab129095)

Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling Citrate synthetase with unpurified ab129095 at a dilution of 1/250.

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-Citrate synthetase antibody [EPR8067]
(ab129095)

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

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