

Product datasheet

Anti-DAP13/NDUFA12 antibody [EPR15867-28] ab192617

Recombinant RabMAb

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Overview

Product name	Anti-DAP13/NDUFA12 antibody [EPR15867-28]
Description	Rabbit monoclonal [EPR15867-28] to DAP13/NDUFA12
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	HeLa cells; Human fetal heart and skeletal muscle tissue lysates; Mouse brain, heart and kidney tissue lysates; Rat muscle tissue lysate; Human brain and stomach tissues; Rat kidney 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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR15867-28
Isotype	IgG

Applications

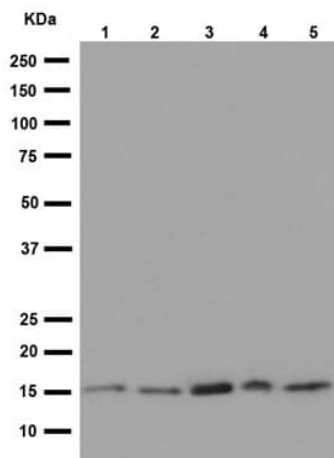
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab192617 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000 - 1/2000. Detects a band of approximately 17 kDa (predicted molecular weight: 17 kDa).
IHC-P		1/400 - 1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/100.

Target

Function	Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed not to be involved in catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone.
Involvement in disease	Defects in <i>NDUFA12</i> are the cause of Leigh syndrome (LS) [MIM:256000]. An early-onset progressive neurodegenerative disorder characterized by the presence of focal, bilateral lesions in one or more areas of the central nervous system including the brainstem, thalamus, basal ganglia, cerebellum and spinal cord. Clinical features depend on which areas of the central nervous system are involved and include subacute onset of psychomotor retardation, hypotonia, ataxia, weakness, vision loss, eye movement abnormalities, seizures, and dysphagia.
Sequence similarities	Belongs to the complex I <i>NDUFA12</i> subunit family.
Cellular localization	Mitochondrion inner membrane.

Images



Western blot - Anti-DAP13/NDUFA12 antibody [EPR15867-28] (ab192617)

All lanes : Anti-DAP13/NDUFA12 antibody [EPR15867-28] (ab192617) at 1/1000 dilution

Lane 1 : mouse brain tissue lysate

Lanes 2 & 4 : mouse heart tissue lysate

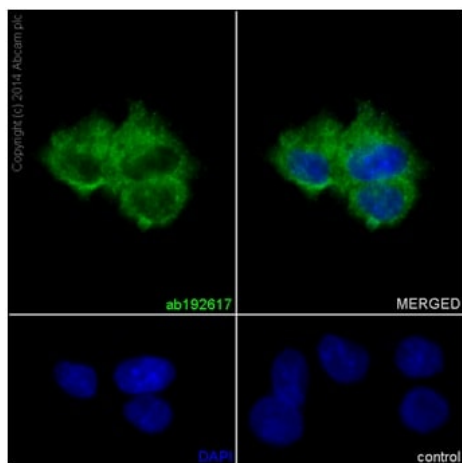
Lanes 3 & 5 : mouse kidney tissue lysate

Lysates/proteins at 10 µg per lane.

Secondary

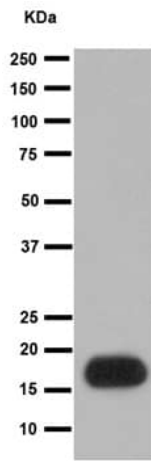
All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 17 kDa



Immunocytochemistry/ Immunofluorescence - Anti-DAP13/NDUFA12 antibody [EPR15867-28] (ab192617)

Immunofluorescent analysis of HeLa cells (100% Methanol-fixed, 0.1% triton X-100-permealized) labeling DAP13/NDUFA12 with ab192617 at 1/100 dilution (20 µg/ml). A Goat anti rabbit IgG (Alexa Fluor488) at 1/400 dilution (**ab150077**) was used as secondary antibody. Cells were fixed with Counterstain: DAPI.



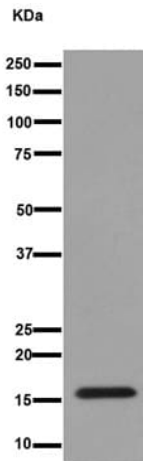
Western blot - Anti-DAP13/NDUFA12 antibody [EPR15867-28] (ab192617)

Anti-DAP13/NDUFA12 antibody [EPR15867-28] (ab192617) at 1/5000 dilution + Rat muscle tissue lysate at 10 μ g

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 17 kDa



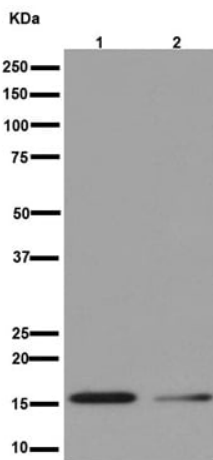
Western blot - Anti-DAP13/NDUFA12 antibody [EPR15867-28] (ab192617)

Anti-DAP13/NDUFA12 antibody [EPR15867-28] (ab192617) at 1/5000 dilution + Human fetal heart tissue lysate at 10 μ g

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 17 kDa



Western blot - Anti-DAP13/NDUFA12 antibody [EPR15867-28] (ab192617)

All lanes : Anti-DAP13/NDUFA12 antibody [EPR15867-28] (ab192617) at 1/1000 dilution

Lane 1 : Human fetal heart tissue lysate

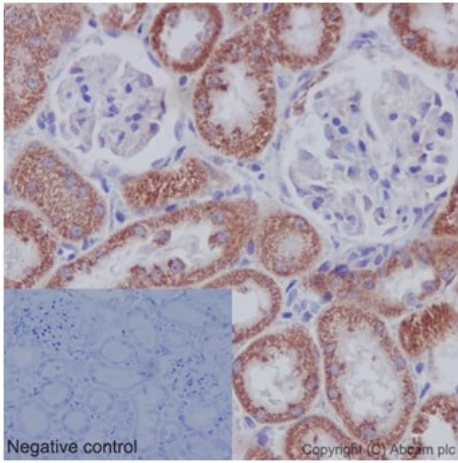
Lane 2 : Human skeletal muscle tissue lysate

Lysates/proteins at 20 μ g per lane.

Secondary

All lanes : Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

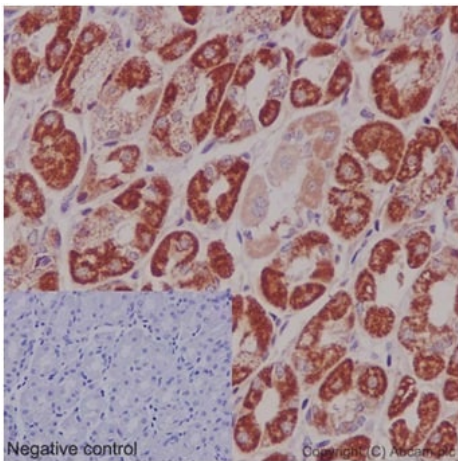
Predicted band size: 17 kDa



Immunohistochemical analysis of paraffin-embedded Rat muscle tissue labeling DAP13/NDUFA12 with ab192617 at 1/1000 dilution (2µg/ml). A Ready to use HRP Polymer for Rabbit IgG (prediluted) was used as secondary. Counterstain: Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

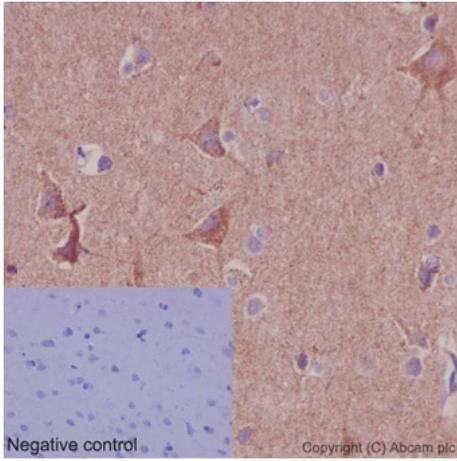
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DAP13/NDUFA12 antibody [EPR15867-28] (ab192617)



Immunohistochemical analysis of paraffin-embedded Human stomach tissue labeling DAP13/NDUFA12 with ab192617 at 1/1000 dilution (2µg/ml). A Ready to use HRP Polymer for Rabbit IgG (prediluted) was used as secondary. Counterstain: Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DAP13/NDUFA12 antibody [EPR15867-28] (ab192617)



Immunohistochemical analysis of paraffin-embedded Human brain tissue labeling DAP13/NDUFA12 with ab192617 at 1/1000 dilution (2µg/ml). A Ready to use HRP Polymer for Rabbit IgG (prediluted) was used as secondary. Counterstain: Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DAP13/NDUFA12 antibody [EPR15867-28] (ab192617)

Why choose a recombinant antibody?



Anti-DAP13/NDUFA12 antibody [EPR15867-28] (ab192617)

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

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