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

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: 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.

Properties

Form: Liquid
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
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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>WB</td>
<td></td>
<td>1/1000 - 1/2000. Detects a band of approximately 17 kDa (predicted molecular weight: 17 kDa).</td>
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<tr>
<td>IHC-P</td>
<td></td>
<td>1/400 - 1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.</td>
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<td>ICC/IF</td>
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<td>1/100.</td>
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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 NDUFA12 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 NDUFA12 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

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

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

**Predicted band size:** 17 kDa

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

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

**Predicted band size:** 17 kDa

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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 µg 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.

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.
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.

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**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

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

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

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