abcam

Product datasheet

Anti-DPS1 antibody [EPR20843] ab216869

Recombinant RabMAb

4 Images

Overview

Product name	Anti-DPS1 antibody [EPR20843]
Description	Rabbit monoclonal [EPR20843] to DPS1
Host species	Rabbit
Specificity	collaborative project
Tested applications	**Suitable for:** WB, IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: MCF7, HeLa, A549, K-562, Jurkat, F9, C6, and RAW 264.7 cell lysate. IP: MCF7 cell lysate.
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 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: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR20843
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab216869 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

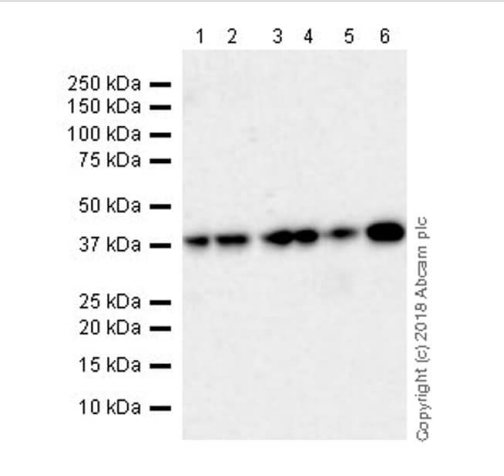
Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 46 kDa.
IP		1/30.

Target

Relevance DPS1 is an enzyme that elongates the prenyl side-chain of coenzyme Q, or ubiquinone, one of the key elements in the respiratory chain. It catalyzes the formation of all trans-polyprenyl pyrophosphates from isopentyl diphosphate in the assembly of polyisoprenoid side chains, the first step in coenzyme Q biosynthesis. The protein may be peripherally associated with the inner mitochondrial membrane, though no transit peptide has been definitively identified to date. Defects in this gene are a cause of coenzyme Q10 deficiency. There are three named isoforms.

Cellular localization Mitochondrial and Plasma membrane

Images



Western blot - Anti-DPS1 antibody [EPR20843] (ab216869)

All lanes : Anti-DPS1 antibody [EPR20843] (ab216869) at 1/1000 dilution

Lane 1 : MCF7 (human breast adenocarcinoma epithelial cell) whole cell lysate
Lane 2 : HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysate
Lane 3 : A549 (human lung carcinoma epithelial cell) whole cell lysate
Lane 4 : K-562 (human chronic myelogenous leukemia lymphoblast) whole cell lysate
Lane 5 : Jurkat (human T cell leukemia T lymphocyte) whole cell lysate
Lane 6 : F9 (mouse embryonal carcinoma epithelial cell) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000

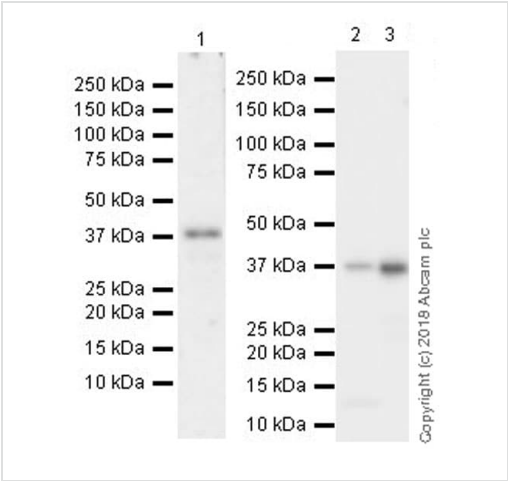
dilution

Predicted band size: 46 kDa
Observed band size: 38 kDa

Blocking/diluting buffer and concentration: 5% NFDM/TBST

Exposure time: 3 minutes.

The band observed likely represents isoforms 2 or 3 based on their predicted molecular masses.



Western blot - Anti-DPS1 antibody [EPR20843] (ab216869)

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/1000 dilution

Lane 1 : Mouse kidney lysate
Lane 2 : C6 (rat glial tumor glial cell) whole cell lysate
Lane 3 : RAW 264.7(mouse Abelson murine leukemia virus-induced tumor macrophage) whole cell lysate

Lysates/proteins at 10 µg per lane.

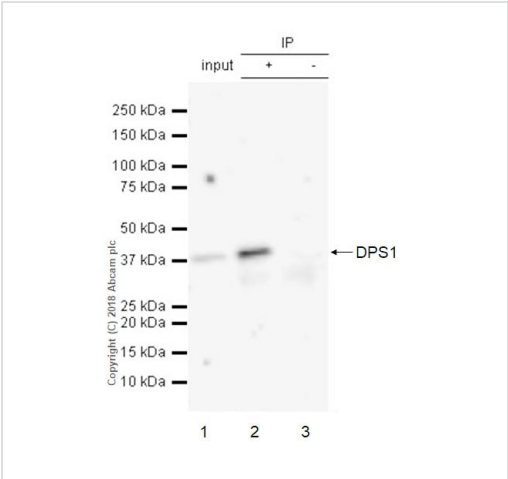
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 46 kDa

Blocking/diluting buffer and concentration: 5% NFDM/TBST

Exposure time:
Lane 1: 3 minutes
Lane 2-3: 15 seconds.

The band observed likely represents isoforms 2 or 3 based on their predicted molecular masses.



Immunoprecipitation - Anti-DPS1 antibody [EPR20843] (ab216869)

DPS1 was immunoprecipitated from 10 µg of MCF7 (human breast adenocarcinoma epithelial cell) whole cell lysate with ab216869 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab216869 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**) was used for detection at 1/5000 dilution.

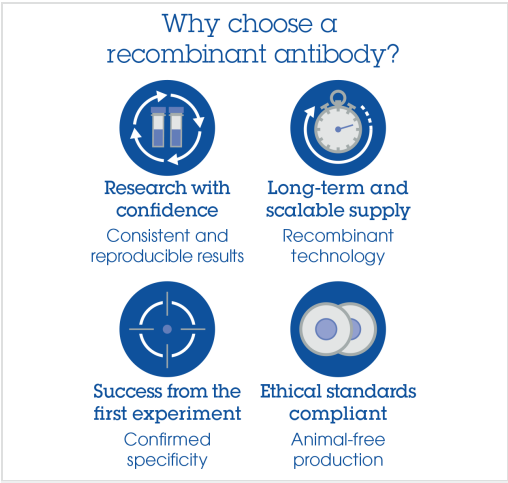
Lane 1: MCF7 (human breast adenocarcinoma epithelial cell) whole cell lysate 10 µg (input).

Lane 2: ab216869 IP in MCF7 whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab216869 in MCF7 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDM/TBST

Exposure time: 150 seconds.



Anti-DPS1 antibody [EPR20843] (ab216869)

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