abcam

Product datasheet

Anti-SDHC antibody ab129736

1 Image

Overview

Product name	Anti-SDHC antibody
Description	Rabbit polyclonal to SDHC
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Horse, Chimpanzee, Macaque monkey, Orangutan
Immunogen	Synthetic peptide corresponding to Human SDHC aa 1-100 conjugated to keyhole limpet haemocyanin. Database link: **Q99643**
Positive control	This antibody gave a positive signal in a nuclear extract from Jurkat cells, and in the following whole cell lysates: THP1; U937; HEK293.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

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 or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab129736 in the following tested applications.

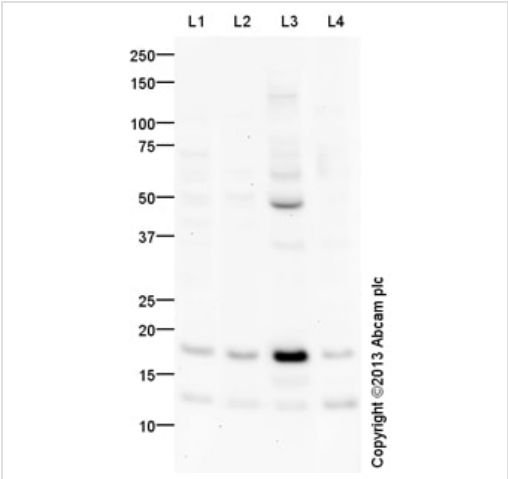
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 18 kDa (predicted molecular weight: 18 kDa).

Target

Function	Membrane-anchoring subunit of succinate dehydrogenase (SDH) that is involved in complex II of the mitochondrial electron transport chain and is responsible for transferring electrons from succinate to ubiquinone (coenzyme Q).
Pathway	Carbohydrate metabolism; tricarboxylic acid cycle.
Involvement in disease	Defects in SDHC are the cause of hereditary paragangliomas type 3 (PGL3) [MIM:605373]; also known as autosomal dominant non-chromaffin paragangliomas type 3. Non-chromaffin paragangliomas are usually benign, neural crest derived tumors of parasympathetic ganglia. Defects in SDHC are a cause of paraganglioma and gastric stromal sarcoma (PGGSS) [MIM:606864]; also known as Carney-Stratakis syndrome. Gastrointestinal stromal tumors may be sporadic or inherited in an autosomal dominant manner, alone or as a component of a syndrome associated with other tumors, such as in the context of neurofibromatosis type 1 (NF1). Patients have both gastrointestinal stromal tumors and paragangliomas. Susceptibility to the tumors was inherited in an apparently autosomal dominant manner, with incomplete penetrance.
Sequence similarities	Belongs to the cytochrome b560 family.
Cellular localization	Mitochondrion inner membrane.

Images



Western blot - Anti-SDHC antibody (ab129736)

All lanes : Anti-SDHC antibody (ab129736) at 1 µg/ml

Lane 1 : THP1 (Human acute monocytic leukemia cell line) Whole Cell Lysate
Lane 2 : U937 (Human leukemic monocyte lymphoma cell line) Whole Cell Lysate
Lane 3 : Jurkat (Human T cell lymphoblast-like cell line) Nuclear Lysate
Lane 4 : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 18 kDa
Observed band size: 18 kDa
Additional bands at: 13 kDa (possible non-specific binding), 140 kDa (possible non-specific binding), 50 kDa (possible non-specific binding)

Exposure time: 20 minutes

This blot was produced using a 4-12% Bis-tris gel under the MES buffer system. The gel was run at 200V for 35 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes.

The membrane was then blocked for an hour using 5% Bovine Serum Albumin before being incubated with ab129736 overnight at 4°C. Antibody binding was detected using an anti-rabbit antibody conjugated to HRP, and visualised using ECL development solution.

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