abcam

Product datasheet

Anti-NSDHL antibody [EPR14489(2)] ab199730

KO VALIDATED · Recombinant · RabMAb

6 Images

Overview

Product name	Anti-NSDHL antibody [EPR14489(2)]
Description	Rabbit monoclonal [EPR14489(2)] to NSDHL
Host species	Rabbit
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: HEK293T, A431, HeLa, HepG2, NIH/3T3, PC-12 and C6 whole cell lysates; Human fetal brain lysate. IP: Human fetal brain whole 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: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14489(2)
Isotype	IgG

Applications

The Abpromise guarantee   Our Abpromise guarantee covers the use of ab199730 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. Detects a band of approximately 42 kDa (predicted molecular weight: 42 kDa).
IP		1/50.

Target

|	
Tissue specificity	Brain, heart, liver, lung, kidney, skin and placenta.
Pathway	Steroid biosynthesis; zymosterol biosynthesis; zymosterol from lanosterol: step 4/6.
Involvement in disease	Defects in NSDHL are the cause of congenital hemidysplasia with ichthyosiform erythroderma and limb defects (CHILD) [MIM:308050]. CHILD is an X-linked dominant disorder of lipid metabolism with disturbed cholesterol biosynthesis, which typically results in male lethality. Clinically, it is characterized by congenital, unilateral, ichthyosisform erythroderma with striking lateralization, sharp midline demarcation, and ipsilateral limb defects and hypoplasia of the body. Limbs defects range from hypoplasia of digits or ribs to complete amelia, often including scoliosis. Defects in NSDHL are the cause of CK syndrome (CKS) [MIM:300831]. CKS is a disorder characterized by mild to severe cognitive impairment, seizures, microcephaly, cerebral cortical malformations, dysmorphic facial features, and thin body habitus.
Sequence similarities	Belongs to the 3-beta-HSD family.
Cellular localization	Membrane.

Images
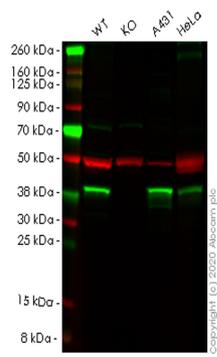
Western blot - Anti-NSDHL antibody [EPR14489(2)] (ab199730)

All lanes : Anti-NSDHL antibody [EPR14489(2)] (ab199730) at 1/1000 dilution

Lane 1 : Wild-type HEK293T cell lysate

Lane 2 : NSDHL knockout HEK293T cell lysate

Lane 3 : A431 cell lysate

Lane 4 : HeLa cell lysate

Lysates/proteins at 20 μg per lane.

Secondary

All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) at 1/10000 dilution

Predicted band size: 42 kDa

Observed band size: 38 kDa

Lanes 1-4: Merged signal (red and green). Green - ab199730 observed at 38 kDa. Red - loading control ab7291 observed at 50 kDa.

ab199730 Anti-NSDHL antibody [EPR14489(2)] was shown to specifically react with NSDHL in wild-type HEK293T cells. Loss of signal was observed when knockout cell line ab266682 (knockout cell lysate ab258082) was used. Wild-type and NSDHL knockout samples were subjected to SDS-PAGE. ab199730 and Anti-alpha Tubulin antibody [DM1A] - Loading Control (ab7291) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (ab216776) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.
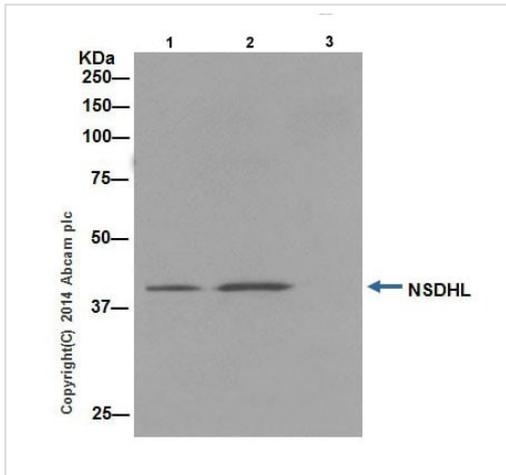
Immunoprecipitation - Anti-NSDHL antibody [EPR14489(2)] (ab199730)

NSDHL was immunoprecipitated from 1mg of Human fetal brain whole cell lysate with ab199730 at 1/50 dilution.

Lane 1: Human fetal brain whole cell lysate 10ug (Input).

Lane 2: ab199730 IP in Human fetal brain whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab199730 in Human fetal brain whole cell lysate.

Western blot was performed from the immunoprecipitate using ab199730 at 1/1000 dilution.

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500.

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

Exposure time: 5 seconds.
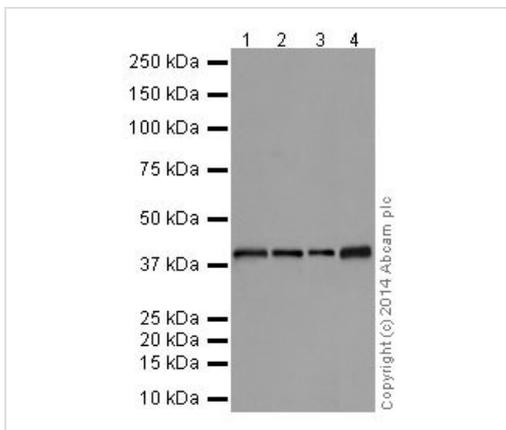
Western blot - Anti-NSDHL antibody [EPR14489(2)] (ab199730)

All lanes : Anti-NSDHL antibody [EPR14489(2)] (ab199730) at 1/1000 dilution

Lane 1 : A431 (Human epidermoid carcinoma) whole cell lysate
Lane 2 : HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate
Lane 3 : HepG2 (Human liver hepatocellular carcinoma) whole cell lysate
Lane 4 : Human fetal brain lysate

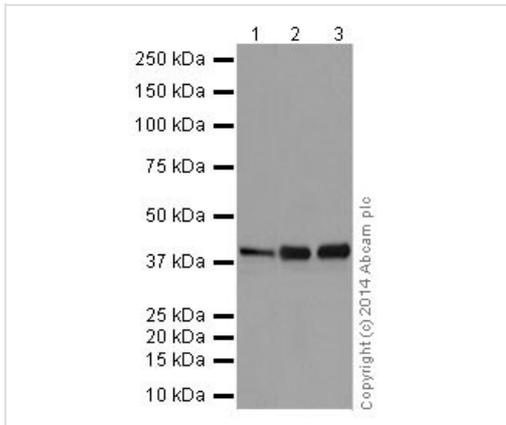Lysates/proteins at 10 μg per lane.

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

Predicted band size: 42 kDa
Observed band size: 42 kDa

Exposure time: 5 seconds

Blocking/Dilution buffer: 5% NFDM/TBST.

Western blot - Anti-NSDHL antibody [EPR14489(2)] (ab199730)

All lanes : Anti-NSDHL antibody [EPR14489(2)] (ab199730) at 1/1000 dilution

Lane 1 : NIH/3T3 (Mouse embyro fibroblast cells) whole cell lysate

Lane 2 : PC-12 (Rat adrenal gland pheochromocytoma) whole cell lysate

Lane 3 : C6 (Rat glial tumor cells) whole cell lysate

Lysates/proteins at 10 μg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution
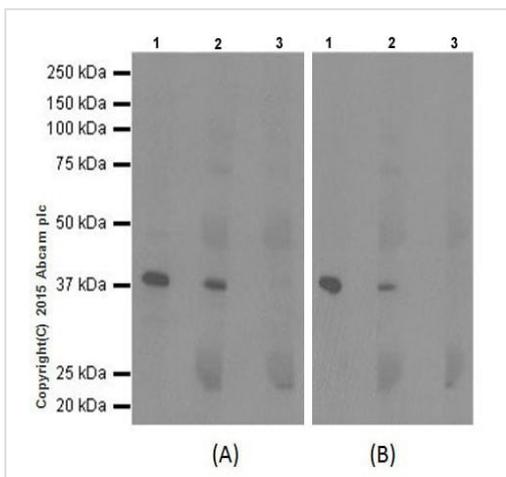
Predicted band size: 42 kDa

Observed band size: 42 kDa

Exposure time: 10 seconds

Blocking buffer: 5% NFDM/TBST.

Dilution buffer: 5% NFDM /TBST or 1%BSA /TBST.

Immunoprecipitation - Anti-NSDHL antibody [EPR14489(2)] (ab199730)

NSDHL was immunoprecipitated from 1mg of HeLa (Human epithelial cells from cervix adenocarcinoma) whole cell lysate with ab199730 at 1/50 dilution.

Lane 1: HeLa whole cell lysate 10ug (Input).

Lane 2: ab199730 IP in HeLa whole cell lysate.

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab199730 in HeLa whole cell lysate.

Western blot was performed from the immunoprecipitate using ab199730 at 1/1000 dilution (Panel A) or ab190353 at 1/1000 dilution (Panel B).

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500.

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

Exposure time: 30 seconds (Panel A and B).

ab199730 was used to immunoprecipitate NSDHL. These precipitates were resolved with ab190353.

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-NSDHL antibody [EPR14489(2)] (ab199730)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit https://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors