abcam

Product datasheet

Anti-NSDHL antibody [EPR14490] ab190353





2 References 6 Images

Overview

Product name Anti-NSDHL antibody [EPR14490]

Description Rabbit monoclonal [EPR14490] to NSDHL

Host species Rabbit

Tested applications Suitable for: WB, IHC-P, ICC/IF

Species reactivity Reacts with: Human

Immunogen Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

Positive control WB: HEK293T, A431, HeLa and Human fetal brain lysates. IHC-P: Human liver and Human

adenocarcinoma of endometrium tissue. ICC: U87-MG cells.

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, 0.05% BSA

Purity Protein A purified

Clonality Monoclonal Clone number EPR14490

Isotype ΙgG

Applications

The Abpromise guarantee

Our <u>Abpromise guarantee</u> covers the use of ab190353 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 - 1/10000. Detects a band of approximately 38 kDa (predicted molecular weight: 42 kDa).
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/50.

Target

Tissue specificity

Pathway

Involvement in disease

Brain, heart, liver, lung, kidney, skin and placenta.

Steroid biosynthesis; zymosterol biosynthesis; zymosterol from lanosterol: step 4/6.

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.

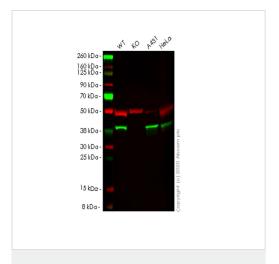
Sequence similarities

Belongs to the 3-beta-HSD family.

Cellular localization

Membrane.

Images



Western blot - Anti-NSDHL antibody [EPR14490] (ab190353)

All lanes : Anti-NSDHL antibody [EPR14490] (ab190353) 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.

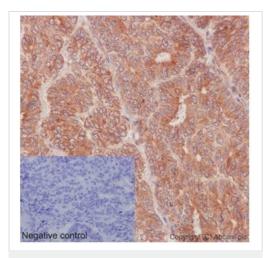
Secondary

All lanes : Goat anti-Rabbit lgG 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 - ab190353 observed at 38 kDa. Red - loading control <u>ab7291</u> observed at 50 kDa.

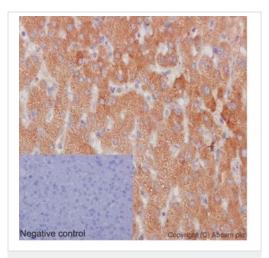
ab190353 Anti-NSDHL antibody [EPR14490] was shown to specifically react with NSDHL in wild-type HEK293T cells. Loss of signal was observed when knockout cell line ab266682 (knockout cell lysate ab258082) was used. Wild-type and NSDHL knockout samples were subjected to SDS-PAGE. ab190353 and Anti-alpha 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 lgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse lgG H&L (IRDye® 680RD) preadsorbed (ab216776) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-NSDHL antibody
[EPR14490] (ab190353)

Immunohistochemical analysis of paraffin-embedded Human adenocarcinoma of endometrium tissue labeling NSDHL with ab190353 at 1/100 dilution. Secondary antibody HRP Polymer for Rabbit IgG prediluted. Counter stain Hematoxylin. Negative control also shown.

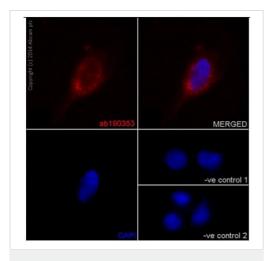
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-NSDHL antibody
[EPR14490] (ab190353)

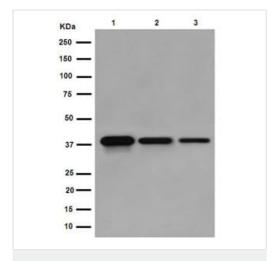
Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling NSDHL with ab190353 at 1/100 dilution. Secondary antibody HRP Polymer for Rabbit IgG prediluted. Counter stain Hematoxylin. Negative control also shown.

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



Immunocytochemistry/ Immunofluorescence - Anti-NSDHL antibody [EPR14490] (ab190353)

Immunofluorescence analysis of U87-MG cells, labeling NSDHL (red) with ab190353 at 1/50 dilution. Alexa Fluor®555-conjugated goat anti-rabbit lgG was used as a secondary antibody at 1/200 dilution. Nuclei were counterstained with DAPI (blue).



Western blot - Anti-NSDHL antibody [EPR14490] (ab190353)

All lanes : Anti-NSDHL antibody [EPR14490] (ab190353) at 1/10000 dilution

Lane 1 : A431 cell lysate

Lane 2 : HeLa cell lysate

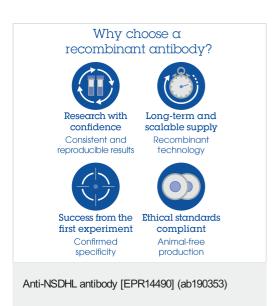
Lane 3: Human fetal brain tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

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

Predicted band size: 42 kDa Observed band size: 38 kDa



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