

Product datasheet

Anti-NSDHL antibody [EPR14490] - BSA and Azide free ab251016

KO VALIDATED

Recombinant

RabMAb

6 Images

Overview

Product name	Anti-NSDHL antibody [EPR14490] - BSA and Azide free
Description	Rabbit monoclonal [EPR14490] to NSDHL - BSA and Azide free
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 and HeLa cell lysates; Human fetal brain tissue lysate. IHC-P: Human endometrium adenocarcinoma and liver tissues. ICC/IF: U87-MG cells.
General notes	<p>ab251016 is the carrier-free version of ab190353.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS

Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14490
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab251016 in the following tested applications.

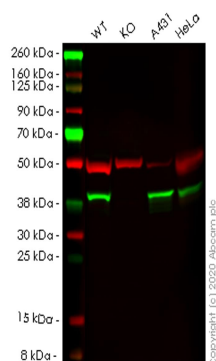
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Detects a band of approximately 38 kDa (predicted molecular weight: 42 kDa).
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		Use at an assay dependent concentration.

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	<p>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, ichthyosiform 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.</p> <p>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.</p>
Sequence similarities	Belongs to the 3-beta-HSD family.
Cellular localization	Membrane.

Images



Western blot - Anti-NSDHL antibody [EPR14490] - BSA and Azide free (ab251016)

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 IgG H&L (IRDye® 800CW) preadsorbed ([ab216773](#)) at 1/10000 dilution

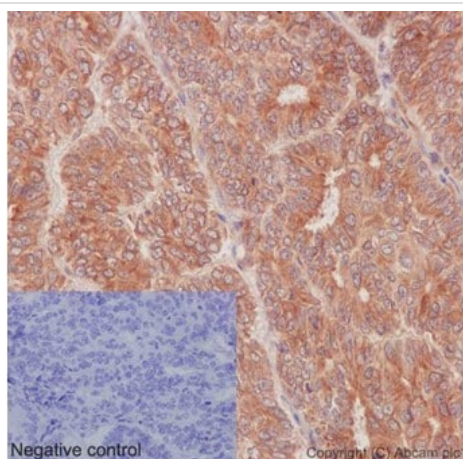
Predicted band size: 42 kDa

Observed band size: 38 kDa

This data was developed using [ab190353](#), the same antibody clone in a different buffer formulation.

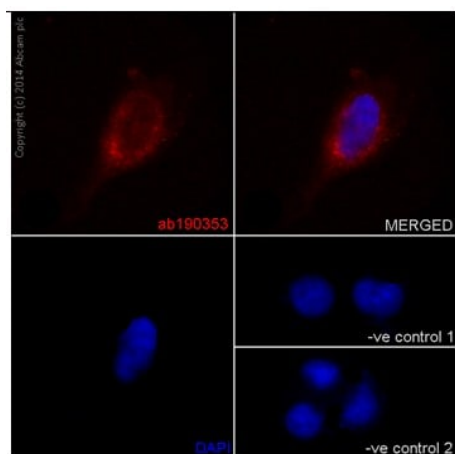
Lanes 1-4: Merged signal (red and green). Green - [ab190353](#) observed at 38 kDa. Red - loading control [ab7291](#) observed at 50 kDa.

[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 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.



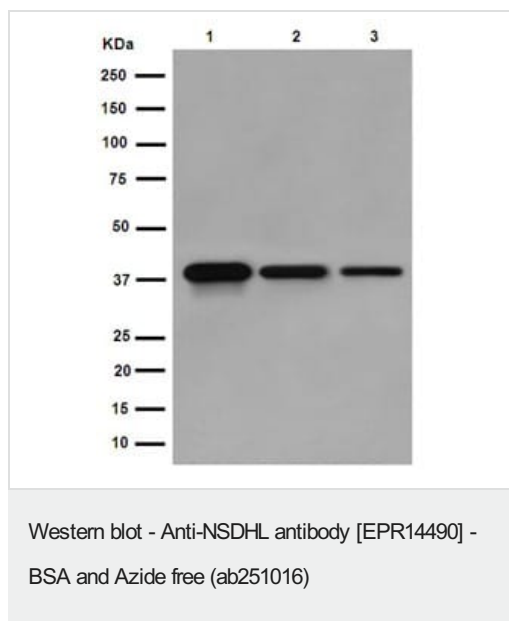
This data was developed using **ab190353**, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded Human adenocarcinoma of endometrium tissue labeling NSDHL with **ab190353** at 1/100 dilution. Secondary antibody HRP Polymer for Rabbit IgG prediluted. 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 paraffin-embedded sections) - Anti-NSDHL antibody [EPR14490] - BSA and Azide free (ab251016)



This data was developed using **ab190353**, the same antibody clone in a different buffer formulation. Immunofluorescence analysis of U87-MG cells, labeling NSDHL (red) with **ab190353** at 1/50 dilution. Alexa Fluor®555-conjugated goat anti-rabbit IgG was used as a secondary antibody at 1/200 dilution. Nuclei were counterstained with DAPI (blue).

Immunocytochemistry/ Immunofluorescence - Anti-NSDHL antibody [EPR14490] - BSA and Azide free (ab251016)



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.

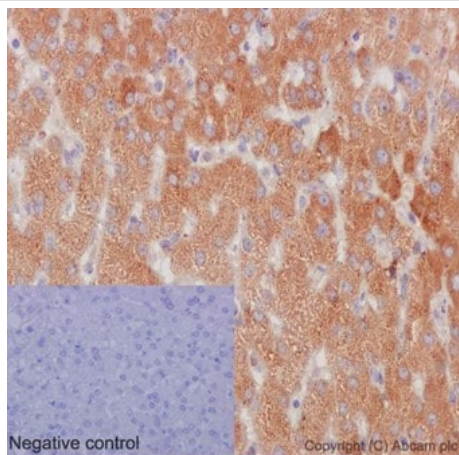
Secondary

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

Predicted band size: 42 kDa

Observed band size: 38 kDa

This data was developed using [ab190353](#), the same antibody clone in a different buffer formulation.



This data was developed using **ab190353**, the same antibody clone in a different buffer formulation. 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.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NSDHL antibody [EPR14490] - BSA and Azide free (ab251016)

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

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