

Product datasheet

Anti-NSDHL antibody ab237799

3 Images

Overview

<b>Product name</b>	Anti-NSDHL antibody
<b>Description</b>	Rabbit polyclonal to NSDHL
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Cow 
<b>Immunogen</b>	Recombinant fragment corresponding to Human NSDHL aa 154-211. Sequence: DIKNGTEDLPYAMKPIDYYTETKILQERAVLGANDPEKN FLTTAIRPHGI FGPRDPQL  Database link: <a href="#">Q15738</a>   <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	IHC-P: Human liver and cervical cancer tissues. ICC/IF: HeLa cells.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.03% Proclin Constituents: 50% Glycerol, PBS
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	Purity greater than 95%.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab237799** 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
IHC-P		1/200 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/50 - 1/200.

## 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, 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.

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.

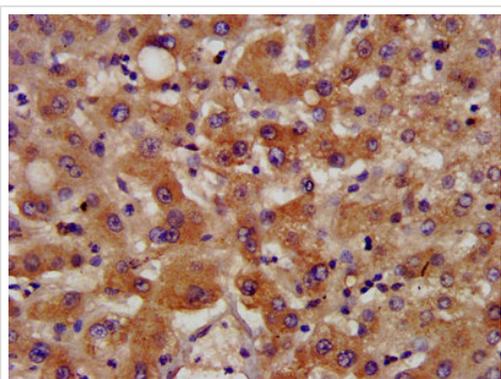
### Sequence similarities

Belongs to the 3-beta-HSD family.

### Cellular localization

Membrane.

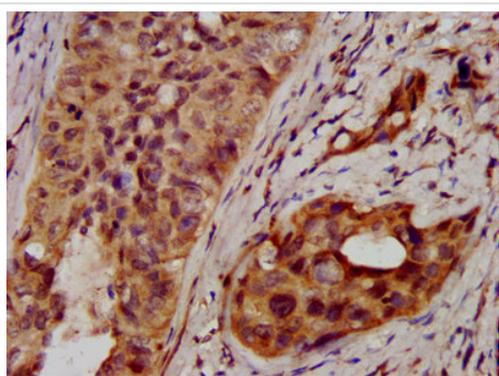
## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NSDHL antibody (ab237799)

Paraffin-embedded human liver tissue stained for NSDHL using ab237799 at 1/400 dilution in immunohistochemical analysis.

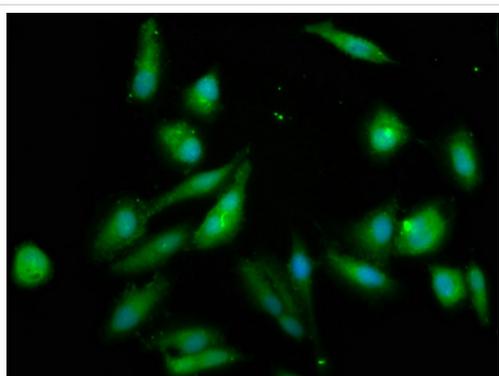
After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NSDHL antibody (ab237799)

Paraffin-embedded human cervical cancer tissue stained for NSDHL using ab237799 at 1/400 dilution in immunohistochemical analysis.

After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunocytochemistry/ Immunofluorescence - Anti-NSDHL antibody (ab237799)

4% Formaldehyde-fixed, 0.2% Triton X-100 permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cells stained for NSDHL (green) using ab237799 at 1/133 dilution in ICC/IF, followed by Alexa Fluor 488<sup>®</sup> conjugated Goat Anti-Rabbit IgG (H+L). Counter-stained with DAPI.

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

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