

Product Name: KD-Validated NSDHL Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00991

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 41.9kDa

Antigen Information

Gene Name	NSDHL NAD(P) Dependent Steroid Dehydrogenase-Like; SDR31E1; XAP104; H105e3; Sterol-4-Alpha-Carboxylate 3-Dehydrogenase, Decarboxylating; Short Chain
Alternative Names	Dehydrogenase/Reductase Family 31E, Member 1; Protein H105e3; EC 1.1.1.170; NAD(P) Dependent Steroid Dehydrogenase-Like Protein Transcript; Epididymis Secretory Sperm Binding Protein; H105E3
Gene ID	50814.0
SwissProt ID	Q15738
Immunogen	A synthesized peptide derived from human NSDHL

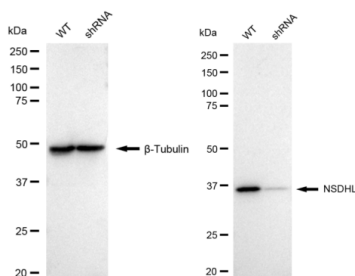
Background

The protein encoded by this gene is localized in the endoplasmic reticulum and is involved in cholesterol biosynthesis. Mutations in this gene are associated with CHILD syndrome, which is a X-linked dominant disorder of lipid metabolism with disturbed cholesterol biosynthesis, and typically lethal in males. Alternatively spliced transcript variants with differing 5' UTR have been found for this gene. [provided by RefSeq, Jul 2008]

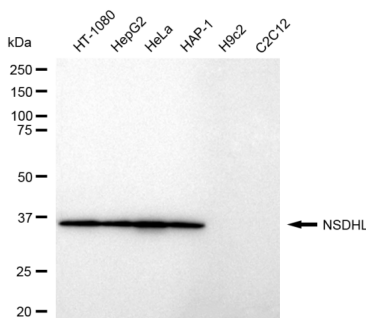
Research Area

Cardiovascular,Signal Transduction,Cancer,Metabolism

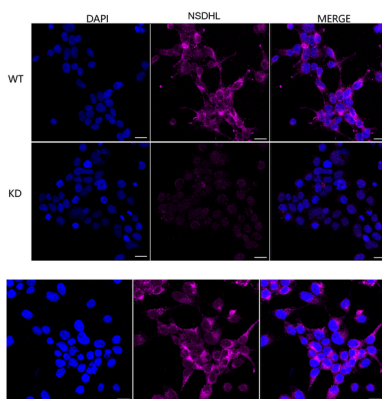
Image Data



Western blotting analysis using NSDHL antibody (KVA00991). NSDHL expression in wild type (WT) and NSDHL shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with NSDHL antibody (KVA00991, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.

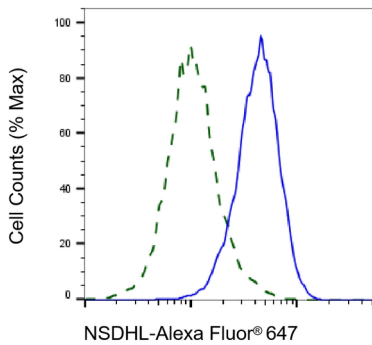


Western blotting analysis using NSDHL antibody (KVA00991). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with NSDHL antibody (KVA00991, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.

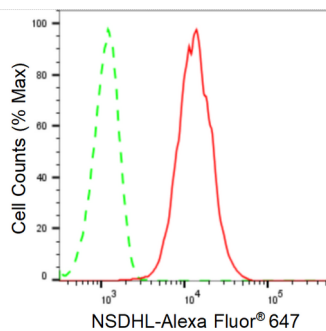


Immunocytochemical staining of HeLa cells using NSDHL antibody (KVA00991, 1:1,000), Top panel: wild-type (WT); Bottom panel: NSDHL shRNA knockdown (KD). Nuclei were stained blue with DAPI; NSDHL was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.

Immunocytochemical staining of HeLa cells with NSDHL antibody (KVA00991, 1:1,000). Nuclei were stained blue with DAPI; NSDHL was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Validation of NSDHL knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with NSDHL antibody (KVA00991, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of NSDHL expression in HeLa cells using NSDHL antibody (KVA00991, 1:2,000). Green, isotype control; red, NSDHL.