

Product Name: KD-Validated NUDT9 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00331**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
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
Molecular Weight	Calculated MW: 39.1kDa

Antigen Information

Gene Name	NUDT9
Alternative Names	NUDT9; Nudix Hydrolase 9; Nudix (Nucleoside Diphosphate Linked Moiety X)-Type Motif 9; ADP-Ribose Pyrophosphatase, Mitochondrial; Adenosine Diphosphoribose Pyrophosphatase; ADP-Ribose Phosphohydrolase; ADP-Ribose Diphosphatase; ADPR-PPase; MGC3037; NUDT10; Nucleoside Diphosphate Linked Moiety X-Type Motif 9; Nucleoside Diphosphate-Linked Moiety X Motif 9; ADP-Ribose Pyrophosphatase NUDT9; Nudix Motif 9; EC 3.6.1.13
Gene ID	53343.0
SwissProt ID	Q9BW91
Immunogen	A synthesized peptide derived from human NUDT9

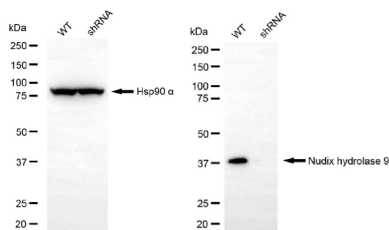
Background

The protein encoded by this gene belongs to the Nudix hydrolase family. Nudix boxes are found in a family of diverse enzymes that catalyze the hydrolysis of nucleoside diphosphate derivatives. This enzyme is an ADP-ribose pyrophosphatase that catalyzes the hydrolysis of ADP-ribose to AMP and ribose-5-P. It requires divalent metal ions and an intact Nudix motif for enzymatic activity. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

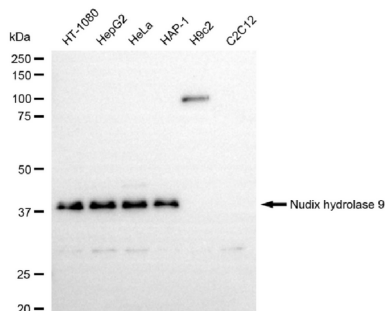
Research Area

Signal Transduction, Metabolism

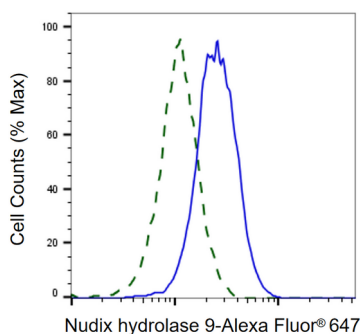
Image Data



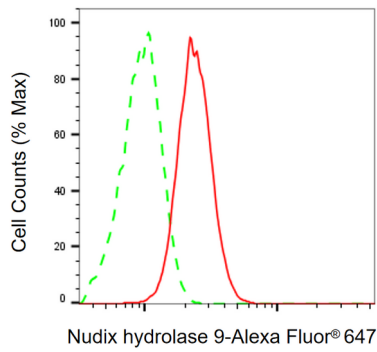
Western blotting analysis using nudix hydrolase 9 antibody (KVA00331). Nudix hydrolase 9 expression in wild-type (WT) and nudix hydrolase 9 (NUDT9) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with nudix hydrolase 9 antibody (KVA00331, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using nudix hydrolase 9 antibody (KVA00331). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with nudix hydrolase 9 antibody (KVA00331, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Validation of Nudix hydrolase 9 knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with Nudix hydrolase 9 antibody (KVA00331, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Nudix hydrolase 9 expression in HepG2 cells using Nudix hydrolase 9 antibody (KVA00331, 1:2,000). Green, isotype control; red, Nudix hydrolase 9.