

Product Name: KD-Validated SMYD3 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00862**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
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: 49.1kDa

Antigen Information

Gene Name	SMYD3 SMYD3; SET And MYND Domain Containing 3; ZNFN3A1; ZMYND1; KMT3E; Zinc Finger MYND Domain-Containing Protein 1; Histone-Lysine N-Methyltransferase SMYD3 ; SET And
Alternative Names	MYND Domain-Containing Protein 3; Zinc Finger, MYND Domain Containing 1; Zinc Finger Protein, Subfamily 3A (MYND Domain Containing), 1; EC 2.1.1.354; EC 2.1.1.43; BA74P14.1; EC 2.1.1
Gene ID	64754.0
SwissProt ID	Q9H7B4
Immunogen	A synthesized peptide derived from human SMYD3

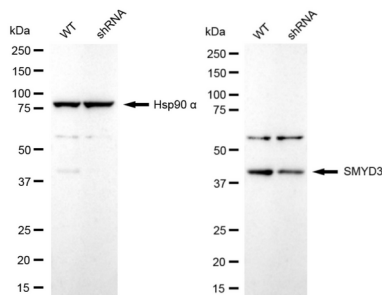
Background

This gene encodes a histone methyltransferase which functions in RNA polymerase II complexes by an interaction with a specific RNA helicase. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

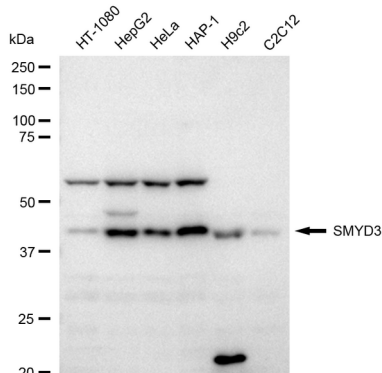
Research Area

Epigenetics and Nuclear Signaling,Cancer

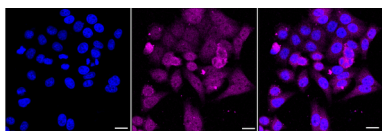
Image Data



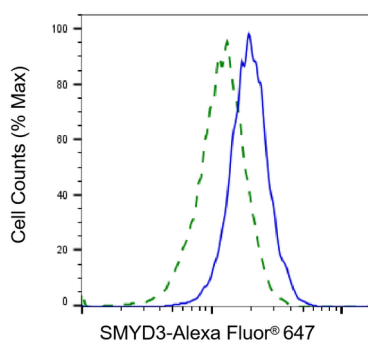
Western blotting analysis using SMYD3 antibody (KVA00862). SMYD3 expression in wild type (WT) and SMYD3 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with SMYD3 antibody (KVA00862, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



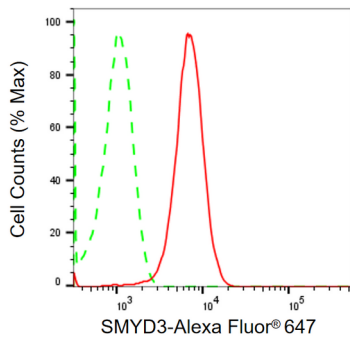
Western blotting analysis using SMYD3 antibody (KVA00862). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with SMYD3 antibody (KVA00862, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with SMYD3 antibody (KVA00862, 1:1,000). Nuclei were stained blue with DAPI; SMYD3 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 SMYD3 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with SMYD3 antibody (KVA00862, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of SMYD3 expression in HepG2 cells using SMYD3 antibody (KVA00862, 1:2,000). Green, isotype control; red, SMYD3.