
Product Name: KD-Validated Lysine Demethylase 1B Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA01043**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,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: 92.1kDa

Antigen Information

Gene Name	KDM1B KDM1B; Lysine Demethylase 1B; LSD2; AOF1; Flavin-Containing Amine Oxidase Domain-Containing Protein 1; Lysine-Specific Histone Demethylase 1B; Lysine-Specific Histone
Alternative Names	Demethylase; Lysine (K)-Specific Demethylase 1B; DJ298J15.2; BA204B7.3; FLJ34109; FLJ33898; FLJ43328; C6orf193; Amine Oxidase (Flavin Containing) Domain 1; Chromosome 6 Open Reading Frame 193; Amine Oxidase, Flavin Containing 1; EC 1.14.99.66; C6ORF193
Gene ID	221656.0
SwissProt ID	Q8NB78
Immunogen	A synthesized peptide derived from human LSD2 / AOF1

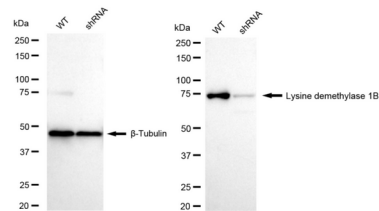
Background

Flavin-dependent histone demethylases, such as KDM1B, regulate histone lysine methylation, an epigenetic mark that regulates gene expression and chromatin function (Karytinov et al., 2009 [PubMed 19407342]).[supplied by OMIM, Oct 2009]

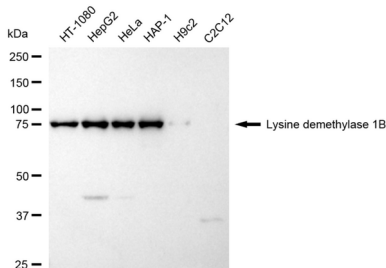
Research Area

Epigenetics and Nuclear Signaling, Neuroscience

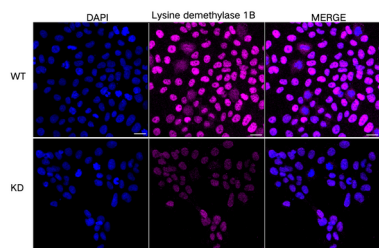
Image Data



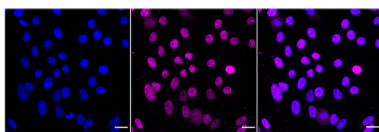
Western blotting analysis using Lysine demethylase 1B antibody (KVA01043). Lysine demethylase 1B expression in wild type (WT) and Lysine demethylase 1B shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Lysine demethylase 1B antibody (KVA01043, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



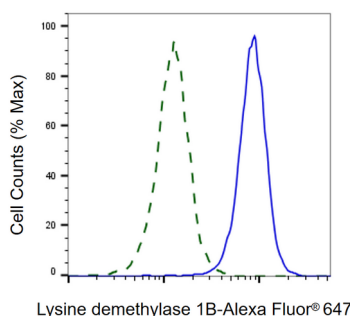
Western blotting analysis using Lysine demethylase 1B antibody (KVA01043). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Lysine demethylase 1B antibody (KVA01043, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



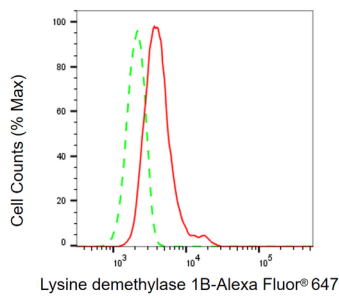
Immunocytochemical staining of HeLa cells using Lysine demethylase 1B antibody (KVA01043, 1:1,000), Top panel: wild-type (WT); Bottom panel: Lysine demethylase 1B shRNA knockdown (KD). Nuclei were stained blue with DAPI; Lysine demethylase 1B was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with Lysine demethylase 1B antibody (KVA01043, 1:1,000). Nuclei were stained blue with DAPI; Lysine demethylase 1B 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 Lysine demethylase 1B knockdown using flow cytometry. Wild-type (WT, Blue) and knockdown (KD, Green) HeLa cells were stained with Lysine demethylase 1B antibody (KVA01043, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Lysine demethylase 1B expression in HepG2 cells using Lysine demethylase 1B antibody (KVA01043, 1:2,000). Green, isotype control; red, Lysine demethylase 1B.