
Product Name: KD-Validated KDM2A Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00395

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 1:100-1:1,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 132.8kDa

Antigen Information

Gene Name	KDM2A KDM2A; Lysine Demethylase 2A; JHDM1A; FBL11; CXXC8; FBL7; F-Box And Leucine-Rich Repeat Protein 11; KIAA1004; LILINA; FBXL11; JmjC Domain-Containing Histone Demethylation Protein 1A; Jumonji C Domain-Containing Histone Demethylase 1A;
Alternative Names	[Histone-H3]-Lysine-36 Demethylase 1A; Lysine (K)-Specific Demethylase 2A; CXXC-Type Zinc Finger Protein 8; Lysine-Specific Demethylase 2A; F-Box/LRR-Repeat Protein 11; DKFZP434M1735; EC 1.14.11.27; FLJ00115; F-Box Protein Lilina; F-Box Protein FBL11; F-Box Protein FBL7
Gene ID	22992.0
SwissProt ID	Q9Y2K7
Immunogen	A synthesized peptide derived from human FBXL11

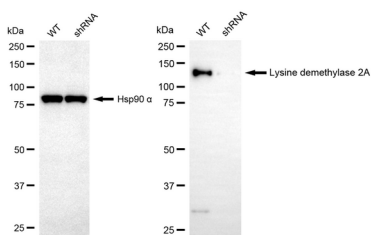
Background

This gene encodes a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene belongs to the Fbls class and, in addition to an F-box, contains at least six highly degenerated leucine-rich repeats. This family member plays a role in epigenetic silencing. It nucleates at CpG islands and specifically demethylates both mono- and di-methylated lysine-36 of histone H3. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012]

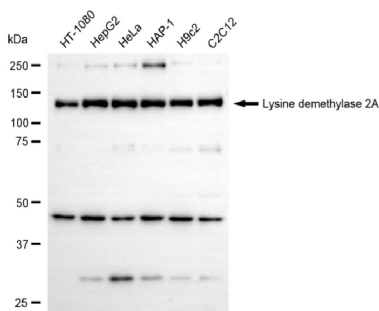
Research Area

Epigenetics and Nuclear Signaling

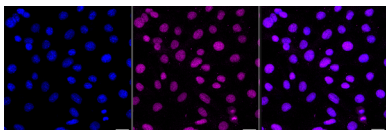
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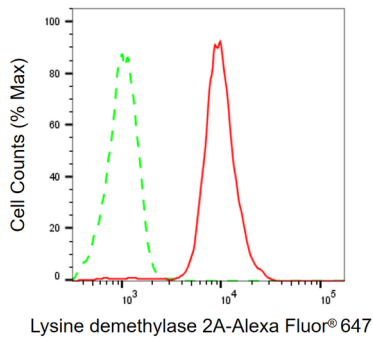
Western blotting analysis using lysine demethylase 2A antibody (KVA00395). lysine demethylase 2A expression in wild-type (WT) and lysine demethylase 2A (KDM2A) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with lysine demethylase 2A antibody (KVA00395, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using lysine demethylase 2A antibody (KVA00395). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with lysine demethylase 2A antibody (KVA00395, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with Lysine demethylase 2A antibody (KVA00395, 1:1,000). Nuclei were stained blue with DAPI; Lysine demethylase 2A 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.



Flow cytometric analysis of Lysine demethylase 2A expression in C2C12 cells using Lysine demethylase 2A antibody (KVA00395, 1:2,000). Green, isotype control; red, Lysine demethylase 2A.