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(818)-707-0392 (Fax)
order@abiocode.com
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KDM1A (N) Antibody, Rabbit Polyclonal

Cat#: R0232-3

Quantity: 100 ul

Predicted | Observed M.W.: 93 | 120 kDa

Lot#: Refer to vial

Application: WB

Uniprot ID: O60341

Background:

Lysine-specific histone demethylase 1A (KDM1A) is a histone demethylase that demethylates both 'Lys-4' (H3K4me) and 'Lys-9' (H3K9me) of histone H3, thereby acting as a coactivator or a corepressor, depending on the context. KDM1A acts as a corepressor by mediating demethylation of H3K4me, a specific tag for epigenetic transcriptional activation. KDM1A can demethylate both mono- (H3K4me1) and di-methylated (H3K4me2) H3K4me, and may play a role in the repression of neuronal genes. KDM1A also acts as a coactivator of androgen receptor (ANDR)-dependent transcription, by being recruited to ANDR target genes and mediating demethylation of H3K9me, a specific tag for epigenetic transcriptional repression. KDM1A is required for gastrulation during embryogenesis.

Other Names:

Lysine-specific histone demethylase 1A, BRAF35-HDAC complex protein BHC110, Flavin-containing amine oxidase domain-containing protein 2, AOF2, KDM1, KIAA0601, LSD1

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the N-terminal region of human KDM1A. Antibodies were purified by affinity purification using immunogen.

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN₃. Store at -20 °C. Stable for 6 months from date of receipt.

Species Specificity:

Human, Mouse

Tested Applications:

WB: 1:1,000-1:5,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

Product Data:

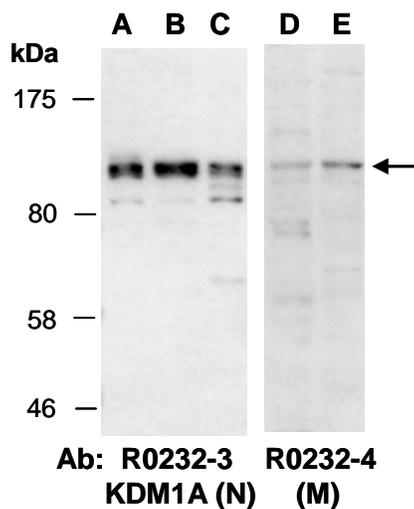


Fig 1. Western blot of total cell extracts from (A) human HeLa; (B, D) human Jurkat; (C, E) mouse thymus; using 2 different Abs against 2 distinct regions of human KDM1A at RT for 2 h. The observed M.W. of KDM1A is approximately 120 kD.