Order: (888)-282-5810 (Phone)
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# KDM1A (vPair™) Antibodies

**Cat#: R0232-vp** **Lot#: Refer to vial**

**Predicted I Observed M.W.: 93 I 120 kDa** **Uniprot ID: O60341**

**Application: WB**

**Quantity:** 50 ul KDM1A (N) (R0232-3) Rabbit Polyclonal Antibody &

50 ul KDM1A (M) (R0232-4) Rabbit Polyclonal Antibody

## Product Introduction:

vPair™ antibodies represent a pair of fully characterized antibodies that recognize two different regions of a target protein. The product is developed by Abiocode to address whether the signal observed truly represents the protein of interest, an often encountered issue in antibody-based assays. The use of a pair of fully characterized vPair™ antibodies in the same assay can validate signal specificity since vPair™ antibodies recognize two independent epitopes of the same protein. Different sets of vPair™ antibodies are developed at Abiocode to work with specific applications, including antibody arrays, Western blot, IP-Western, ChIP, IHC, and FACS.

## 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 either the N-terminal [KDM1A (N) (R0232-3)] or the middle [KDM1A (M) (R0232-4)] region of human KDM1A. Antibodies were purified by affinity purification using immunogen.

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## Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% $NaN_3$. 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:

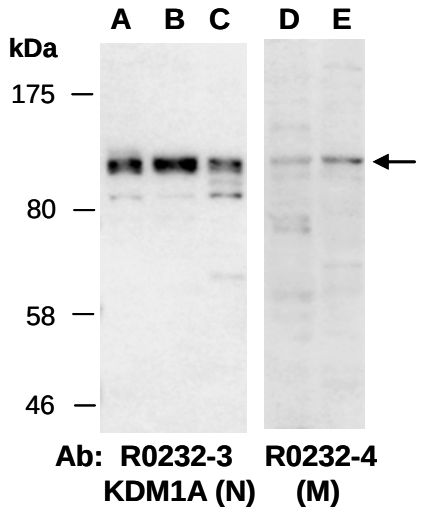


***Fig 1.*** *Western blot of total cell extracts from (A) human HeLa; (B, D) human Jurkat; (C, E) mouse thymus; using 2 different Abs against 2 distinct regions of human KDM1A at RT for 2 h. The observed M.W. of KDM1A is approximately 120 kD.*

Last Update: 08/2012