Order: (888)-282-5810 (Phone)
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KDM7 (C) Antibody, Rabbit Polyclonal

Cat#: R0234-2b

Quantity: 100 ul

Predicted I Observed M.W.: 107 kDa

Lot#: Refer to vial

Application: WB, IP

Uniprot ID: Q6ZMT4

Background:

Lysine-specific histone demethylase 7 (KDM7) is a histone demethylase required for brain development. KDM7 specifically demethylates dimethylated 'Lys-9' and 'Lys-27' (H3K9me2 and H3K27me2, respectively) of histone H3 and monomethylated histone H4 'Lys-20' residue (H4K20Me1), thereby playing a central role in histone code. KDM7 specifically binds trimethylated 'Lys-4' of histone H3 (H3K4me3), affecting histone demethylase specificity: in presence of H3K4me3, it has no demethylase activity toward H3K9me2, while it has high activity toward H3K27me2.

Other Names:

Lysine-specific demethylase 7, JmjC domain-containing histone demethylation protein 1D. JHDM1D, KIAA1718

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the C-terminal region of human KDM7. 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% NaN_3. Store at -20 °C. Stable for 6 months from date of receipt.
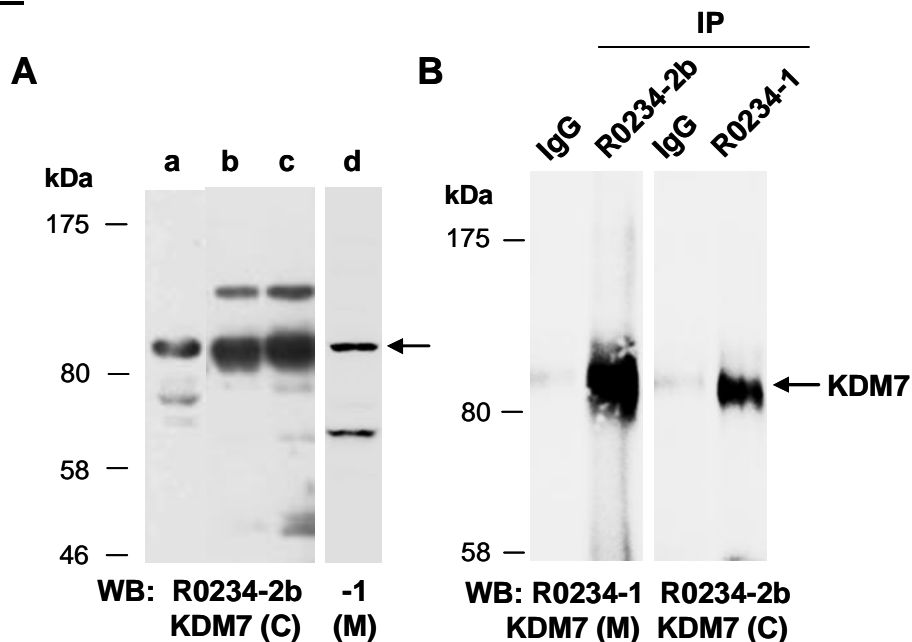
Species Specificity:

Human, Mouse

Tested Applications:

WB: 1:1,000-1:3,000 (detect endogenous protein*)
IP: 1:100 - 1:200

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

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Product Data:

Fig 1. **(A)** *Western blot of total cell extracts from a. mouse brain, b,d. human HeLa, c. human Jurkat; using 2 independent Abs against 2 distinct regions of human KDM7 at RT for 2 h.* **(B)** *Total extracts from human HeLa were immunoprecipitated (IP) with IgG or 2 independent Abs against KDM7, followed by WB with the indicated Abs at RT for 2 h.*