

Product datasheet

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ARG40753 anti-KDM7A / JHDM1D antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes KDM7A / JHDM1D

Tested Reactivity Hu, Ms, Rat

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name KDM7A / JHDM1D

Species Mouse

Immunogen Recombinant fusion protein corresponding to aa. 417-735 of Mouse KDM7A (NP_001028602.2).

Conjugation Un-conjugated

Alternate Names EC 1.14.11.-; Lysine-specific demethylase 7A; Lysine-specific demethylase 7; JHDM1D; JmjC domain-

containing histone demethylation protein 1D

Application Instructions

Application table	Application	Dilution
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse spleen	
Observed Size	107 kDa	

Properties

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol KDM7A

Gene Full Name lysine (K)-specific demethylase 7A

Function Histone demethylase required for brain development. 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. 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.

Demethylates H3K9me2 in absence of H3K4me3. Has activity toward H4K20Me1 only when nucleosome is used as a substrate and when not histone octamer is used as substrate. [UniProt]

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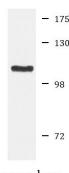
Related news:

Hypoxia-induced transcription, histone demethylases are involved

Calculated Mw 107 kDa

Cellular Localization Nucleus. [UniProt]

Images



ARG40753 anti-KDM7A / JHDM1D antibody WB image

Western blot: 25 μg of Mouse spleen lysate stained with ARG40753 anti-KDM7A / JHDM1D antibody at 1:1000 dilution.

Mouse spleen