

ARG40743 anti-KDM5A / Jarid1A antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes KDM5A / Jarid1A
Tested Reactivity	Hu, Ms
Tested Application	FACS, ICC/IF, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	KDM5A / Jarid1A
Species	Human
Immunogen	Synthetic peptide derived from Human KDM5A / Jarid1A.
Conjugation	Un-conjugated
Alternate Names	Retinoblastoma-binding protein 2; RBBP2; Jumonji/ARID domain-containing protein 1A; RBBP-2; RBP2; Histone demethylase JARID1A; EC 1.14.11.-; Lysine-specific demethylase 5A

Application Instructions

Application table	Application	Dilution
	FACS	1:200
	ICC/IF	1:100 - 1:500
	IP	1:80
	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.

Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.4), 150 mM NaCl, 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	KDM5A
Gene Full Name	lysine (K)-specific demethylase 5A
Background	This gene encodes a member of the Jumonji, AT-rich interactive domain 1 (JARID1) histone demethylase protein family. The encoded protein plays a role in gene regulation through the histone code by specifically demethylating lysine 4 of histone H3. The encoded protein interacts with many other proteins, including retinoblastoma protein, and is implicated in the transcriptional regulation of Hox genes and cytokines. This gene may play a role in tumor progression. [provided by RefSeq, Aug 2013]
Function	Histone demethylase that specifically demethylates 'Lys-4' of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-9', H3 'Lys-27', H3 'Lys-36', H3 'Lys-79' or H4 'Lys-20'. Demethylates trimethylated and dimethylated but not monomethylated H3 'Lys-4'. May stimulate transcription mediated by nuclear receptors. May be involved in transcriptional regulation of Hox proteins during cell differentiation. May participate in transcriptional repression of cytokines such as CXCL12. Plays a role in the regulation of the circadian rhythm and in maintaining the normal periodicity of the circadian clock. In a histone demethylase-independent manner, acts as a coactivator of the CLOCK-ARNTL/BMAL1-mediated transcriptional activation of PER1/2 and other clock-controlled genes and increases histone acetylation at PER1/2 promoters by inhibiting the activity of HDAC1 (By similarity). [UniProt]
Calculated Mw	192 kDa
Cellular Localization	Nucleus, nucleolus. Nucleus. Note=Occupies promoters of genes involved in RNA metabolism and mitochondrial function. [UniProt]

Images



ARG40743 anti-KDM5A / Jarid1A antibody WB image

Western blot: HEK293 cell lysate stained with ARG40743 anti-KDM5A / Jarid1A antibody.