Rabbit KDM3A Polyclonal Antibody | anti-KDM3A antibody

Anti-KDM3A Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254587	**Rabbit**	**HumanPredicted to React with: Mouse, Rat (Species predicted to react based on 100% sequence homology)**	**Immunofluorescence, Immunocytochemistry, Western Blot**

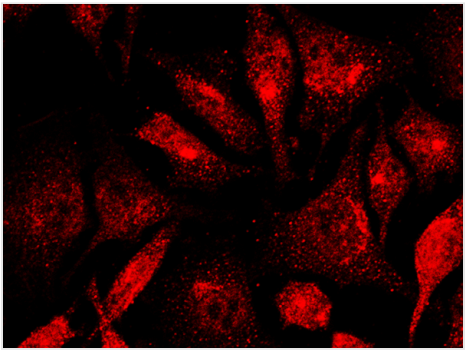
PRODUCT SYNONYMS

KDM3A; Polyclonal Antibody; Anti-KDM3A Antibody; Rabbit Polyclonal; KDM3A Antibody; Rabbit PAb; Antigen Affinity Purified; Anti-JHDM2A Antibody; Anti-JHMD2A Antibody; Anti-JMJD1 Antibody; Anti-JMJD1A Antibody; Anti-TSGA Antibody; anti-KDM3A antibody

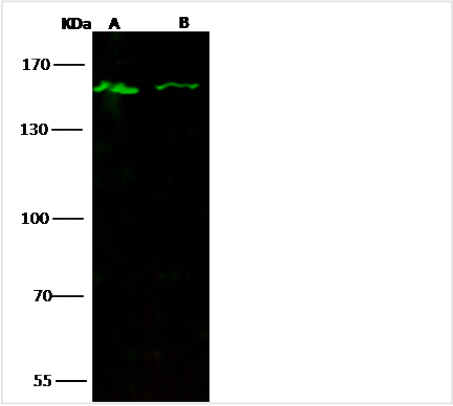
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human Predicted to React with: Mouse, Rat (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human KDM3A
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-KDM3A antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to the C-terminus of the Human KDM3A
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the C-terminus of the Human KDM3A, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)
Immunofluorescence staining of KDM3A in HeLa cells. Cells were fixed with 4% PFA,blocked with 10% serum, and incubated with rabbit anti-human KDM3A polyclonal antibody (1:5000) at 4 degree C overnight. Then cells were stained with the Alexa Fluor594-conjugated Goat Anti-rabbit IgG secondary antibody (red).Positive staining was localized to cytoplasm and nucleus.



WB (Western Blot)
Anti-KDM3A rabbit polyclonal antibody at 1:500 dilutionLane A: Hela Whole Cell LysateLane B: HepG2 Whole Cell LysateLysates/proteins at 30 ug per lane.SecondaryGoat Anti-Rabbit IgG H&L (Dylight 800) at 1/10000 dilution.Developed using the Odyssey technique.Performed under reducing conditions.Predicted band size:147 kDaObserved band size:147 kDa

ADDITIONAL INFORMATION

Related Product Information for anti-KDM3A antibody	KDM3A (also known as JHDM2A or JMJD1A) is an H3K9me2/1 demethylase. KDM3A performs diverse functions via the regulation of its associated genes, which are involved in spermatogenesis, metabolism, and cell differentiation. Lysine demethylase 3A (KDM3A) has been associated with metastasis and poor prognosis in several cancer types, including renal cell carcinoma, prostate cancer and Ewing sarcoma. The lysine demethylase 3A (KDM3A, JMJD1A or JHDM2A) controls transcriptional networks in a variety of biological processes such as spermatogenesis, metabolism, stem cell activity, and tumor progression. KDM3A plays a dual role by regulating actin gene expression and binding to the actin cytoskeleton, creating a responsive "actin gate" that involves ARP2/3 activity and IFT. KDM3A played a dual role in breast cancer cell invasion and apoptosis by demethylating histone and the non-histone protein p53, respectively.

NCBI AND UNIPROT INFORMATION

NCBI GI #	308153659
NCBI GeneID	55818
UniProt Accession #	Q9Y4C1; Q53S72; Q68D47; Q68UT9; Q6N050; Q8IY08; D6W5M3
Molecular Weight	1321
NCBI Official Full Name	Lysine-specific demethylase 3A
NCBI Official Synonym Full Names	lysine (K)-specific demethylase 3A
NCBI Official Symbol	KDM3A
NCBI Official Synonym Symbols	TSGA; JMJD1; JHDM2A; JHMD2A; JMJD1A
NCBI Protein Information	lysine-specific demethylase 3A; testis-specific protein A; jumonji domain containing 1; jumonji domain containing 1A; jumonji domain-containing protein 1A; jumonji C domain-containing histone demethylase 2A; jmjC domain-containing histone demethylation pr
UniProt Protein Name	Lysine-specific demethylase 3A
UniProt Gene Name	**KDM3A**
UniProt Synonym Gene Names	JHDM2A; JMJD1; JMJD1A; KIAA0742; TSGA
UniProt Entry Name	KDM3A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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