

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human KDM3A in direct ELISAs and Western blots. In direct ELISAs, approximately 3% cross-reactivity with recombinant human (rh) KDM4A is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human KDM3A Pro844-Glu968 Accession # Q9Y4C1
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

JMJD1A (Jumonji [Japanese for "cruciform/cross"]/ARID domain-containing protein 1A; also KDM3A, JHDM2A, and TSGA) is a 140-150 kDa member of the JHDM2 histone demethylase family of proteins. It is induced by hypoxia, and expressed in spermatids, smooth muscle cells, mammary epithelium, hepatocytes, and renal tubular epithelium. JMJD1A is reported to demethylate di- and mono-methylated Lys9 on histone H3. It has no activity on trimethylated Lys9. JMJD1A is both cytoplasmic and nuclear, and serves as a coactivator for the AR. Human JMJD1A is 1321 amino acids (aa) in length. It contains one C6-type zinc-finger motif (aa 662-687) and a jumonji C type catalytic domain (aa 1151-1264). There is one phosphorylation site at Ser445. There is one potential splice variants that shows a 13 aa substitution for aa 699-1321. Over aa 810-968, human JMJD1A shares 94% aa identity with mouse JMJD1A.

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