

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 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.