

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human KDM4C in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human KDM4A is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human KDM4C Lys381-Lys588 Accession # Q9H3R0
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.
Immunocytochemistry	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

KDM4C (Lysine [K]-specific demethylase 4C; also GASC1 and JMJD2C) is a 120-140 kDa member of the JHDM3 histone demethylase family of enzymes. It is ubiquitously expressed, and specifically demethylates trimethylated lysines on histone H3 (on Lys9 and Lys36), as well as multiple non-histone methylated proteins such as WIZ, CDYL1 and G9a. Transcriptional activation occurs when it interacts with the androgen and progesterone receptors. Human KDM4C is 1056 amino acids (aa) in length. It contains one jumonji N domain (aa 16-58), a catalytic jumonji C domain (aa 144-310), two PHD zinc finger regions (aa 689-865), and two TUDOR methylated-histone binding domains (aa 877-991). Three potential splice variants are reported. One demonstrates an alternative start site 23 aa upstream of the standard site, a second shows a 49 aa substitution for aa 999-1056, and a third contains a five aa substitution for aa 809-1056. Over aa 381-588, human KDM4C shares 51% aa identity with mouse KDM4C.

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.