Human Lysine (K)-specific Demethylase 4C/KDM4C Alexa Fluor® 647-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6430R
100 µg

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	*E. coli*-derived recombinant human KDM4C Lys381-Lys588 Accession # Q9H3R0
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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

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