

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Lysine (K)-specific Demethylase 6B/KDM6B in direct ELISAs.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Lysine (K)-specific Demethylase 6B/KDM6B (isoform 1) Pro1530-Arg1682 Accession # NP_001073893
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.

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

KDM6B (Lysine [K]-specific demethylase 6B; also JMJD3) is a 170-185 kDa member of the UTX family of enzymes. It is expressed in both embryo and adult, and specifically demethylates tri- and di-methylated Lys27 on histone H3 (H3K27). Methylation of H3K27 by PRC2 inactivates genes, while demethylation of methylated H3K27 by KDM6B activates genes. Human KDM6B is 1643 amino acids (aa) in length. It contains two Pro-rich regions (aa 32-85 and 1046-1082) plus one jumonji domain (aa 1339-1502). One potential splice variant is reported that contains a 39 aa insertion after Leu1636. Over aa 1530-1682, which is a sequence that contains the 39 aa insertion, human KDM6B shares 75% aa sequence identity with mouse KDM6B. When the insertion is disregarded, human and mouse KDM6B are identical in aa sequence over the above range of amino acids.

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