

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human KDM5B in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human KDM5B Leu819-Arg918 Accession # Q9UGL1
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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

KDM5B (also JARID1B, RBP2-H1 and PLU-1) is a 170-200 kDa member of the JARID1 histone demethylase family of proteins. It is a transcriptional repressor that is highly expressed in Sertoli cells and mammary epithelium during pregnancy, and interacts with BF-1 and PAX9. KDM5B is reported to demethylate tri- and di-methylated Lys4 on histone H3. It has no activity on Lys9 or 27. Human KDM5B is 1544 amino acids (aa) in length. It contains a jumonji N domain (aa 32-73), an ARID DNA binding region (aa 97-187), a PHD domain (aa 309-359), a jumonji C domain (aa 486-602), one C5HC2 motif (aa 692-745), and two consecutive PHD domains (aa 1176-1538). There are three utilized phosphorylation sites at Ser1383, 1384 and 1405. There are three potential splice variants. Two show a premature truncation after Pro1433 coupled to an alternative start site at either Met396 or Met159. A third contains a 36 aa insertion after Glu237. Over aa 819-918, human KDM5B shares 96% aa identity with mouse KDM5B.

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