

anti-Human, Mouse KDM6B/JMJD3 Polyclonal Antibody | anti-KDM6B antibody

Anti-KDM6B/JMJD3 Antibody

CATALOG # AAA125423	REACTIVITY Human, Mouse	APPLICATIONS ELISA, Flow Cytometry, Functional Assay, Western Blot
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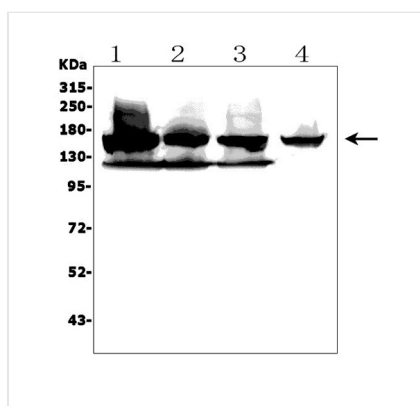
PRODUCT SYNONYMS

KDM6B/JMJD3; Polyclonal Antibody; Anti-KDM6B/JMJD3 Antibody; Lysine-specific demethylase 6B; JmjC domain-containing protein 3; Jumonji domain-containing protein 3; Lysine demethylase 6B; KDM6B; JMJD3; KIAA0346; anti-KDM6B antibody

PRODUCT SPECIFICATIONS

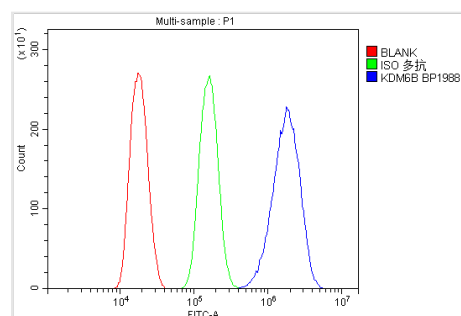
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized; Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Sequence Length	1645
Applicable Applications for anti-KDM6B antibody	ELISA (Direct ELISA), FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E Coli-derived human KDM6B/JMJD3 recombinant protein (Position: R1127-R1643).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen store at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES

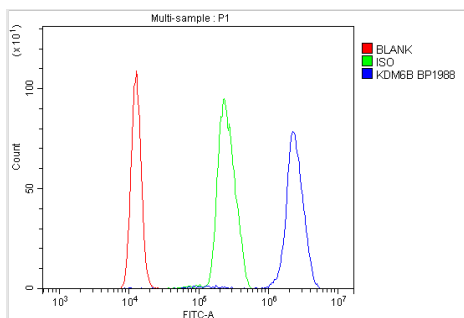


WB (Western Blot)

Figure 1. Western blot analysis of KDM6B using anti-KDM6B antibody.



FCM/FACS (Flow Cytometry)



FCM/FACS (Flow Cytometry)

ADDITIONAL INFORMATION

Related Product Information for anti-KDM6B antibody	Description: Rabbit IgG polyclonal antibody for KDM6B/JMJD3 detection. Tested with WB, FCM, Direct ELISA in Human;Mouse. Background: Lysine demethylase 6B is a protein that in humans is encoded by the KDM6B gene. It is mapped to 17p13.1. The protein encoded by this gene is a lysine-specific demethylase that specifically demethylates di- or tri-methylated lysine 27 of histone H3 (H3K27me2 or H3K27me3). H3K27 trimethylation is a repressive epigenetic mark controlling chromatin organization and gene silencing. This protein can also demethylate non-histone proteins such as retinoblastoma protein. Through its demethylation activity this gene influences cellular differentiation and development, tumorigenesis, inflammatory diseases, and neurodegenerative diseases. This protein has two classical nuclear localization signals at its N-terminus. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
References	- Ge, C., Ye, J., Weber, C., Sun, W., Zhang, H., Zhou, Y., Cai, C., Qian, G., Capel, B. The histone demethylase KDM6B regulates temperature-dependent sex determination in a turtle species. <i>Science</i> 360: 645-648, 2018. - Sen, G. L., Webster, D. E., Barragan, D. I., Chang, H. Y., Khavari, P. A. Control of differentiation in a self-renewing mammalian tissue by the histone demethylase JMJD3. <i>Genes Dev.</i> 22: 1865-1870, 2008. - Stolerman, E. S., Francisco, E., Stallworth, J. L., Jones, J. R., Monaghan, K. G., Keller-Ramey, J., Person, R., Wentzensen, I. M., McWalter, K., Keren, B., Heron, B., Nava, C., and 19 others. Genetic variants in the KDM6B gene are associated with neurodevelopmental delays and dysmorphic features. <i>Am. J. Med. Genet.</i> 179A: 1276-1286, 2019.

NCBI AND UNIPROT INFORMATION

NCBI GI #	119610532
NCBI GeneID	23135
UniProt Accession #	O15054
NCBI Official Full Name	hCG2036579, isoform CRA_a
NCBI Official Synonym Full Names	lysine demethylase 6B
NCBI Official Symbol	KDM6B
NCBI Official Synonym Symbols	JMJD3; NEDCFSA
NCBI Protein Information	lysine-specific demethylase 6B
UniProt Protein Name	Lysine-specific demethylase 6B
UniProt Gene Name	KDM6B
UniProt Synonym Gene Names	JMJD3; KIAA0346
UniProt Entry Name	KDM6B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

