

Rabbit anti-Human UTX/KDM6A Polyclonal Antibody | anti-KDM6A antibody

Anti-UTX/KDM6A Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126130	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

UTX/KDM6A; Polyclonal Antibody; Anti-UTX/KDM6A Antibody Picoband; anti-KDM6A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Natural and recombinant Human CD2
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-KDM6A antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Samples	Cell culture supernatants, serum and plasma (heparin, EDTA)
Detection Range	93.7 pg/ml - 6,000 pg/ml
Sensitivity	<5 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)
Figure 3. Flow Cytometry analysis of HeLa cells using anti-UTX/KDM6A antibody (AAA126130). Overlay histogram showing HeLa cells stained with AAA126130 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-UTX/KDM6A Antibody (AAA126130, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)
Figure 2. IF analysis of UTX/KDM6A using anti-UTX/KDM6A antibody (AAA126130). UTX/KDM6A was detected in an immunocytochemical section of SiHa cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5 ug/mL rabbit anti-UTX/KDM6A Antibody (AAA126130) overnight at 4 degree C. DyLight594 Conjugated Goat Anti-Rabbit IgG (BA1142) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The tissue section was developed using Phalloidin-iFluor 488 Conjugated. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)
Figure 1. Western blot analysis of UTX/KDM6A using anti-UTX/KDM6A antibody (AAA126130). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human MCF-7 whole cell lysates, Lane 2: human HEK293 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-UTX/KDM6A antigen affinity purified polyclonal antibody (#AAA126130) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for UTX/KDM6A at approximately 154 kDa. The expected band size for UTX/KDM6A is at 154 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-KDM6A antibody	Background: CD2 (cluster of differentiation 2) is a cell adhesion molecule found on the surface of T cells and natural killer (NK) cells. The protein encoded by this gene is a surface antigen found on all peripheral blood T-cells. The encoded protein interacts with LFA3 (CD58) on antigen presenting cells to optimize immune recognition. A locus control region (LCR) has been found in the 3' flanking sequence of this gene. Principle of the Assay: The Picokine™ Human CD2 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human CD2 with a 96-well strip plate that is pre-coated with antibody specific for CD2. The detection antibody is a biotinylated antibody specific for CD2. The capture antibody is a monoclonal antibody from mouse and the detection antibody is a biotinylated polyclonal antibody from goat. The kit contains recombinant Human CD2 with immunogen: Expression system for standard: HEK293; Immunogen sequence: K25-D209. The kit is analytically validated with ready-to-use reagents. To measure Human CD2, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human CD2 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human CD2 in the sample.
Product Categories/Family for anti-KDM6A antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	189011544
NCBI GeneID	7403

NCBI Accession #	NP_066963
NCBI GenBank Nucleotide #	NM_021140
UniProt Accession #	O15550 ; Q52LL9 ; Q5JVQ7
Molecular Weight	154,177 Da
NCBI Official Full Name	lysine-specific demethylase 6A isoform 3
NCBI Official Synonym Full Names	lysine (K)-specific demethylase 6A
NCBI Official Symbol	KDM6A
NCBI Official Synonym Symbols	UTX; KABUK2; bA386N14.2
NCBI Protein Information	lysine-specific demethylase 6A; bA386N14.2 (ubiquitously transcribed X chromosome tetratricopeptide repeat protein (UTX)); histone demethylase UTX; ubiquitously transcribed tetratricopeptide repeat protein X-linked; ubiquitously-transcribed TPR gene on th
UniProt Protein Name	Lysine-specific demethylase 6A
UniProt Gene Name	KDM6A
UniProt Synonym Gene Names	UTX
UniProt Entry Name	KDM6A_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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/utx-kdm6a-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/126130>