

Anti-JMJD3 KDM6B Antibody

Catalog Number: A01309

About KDM6B

The Jumonji domain-containing protein 3 (JMJD3) functions as a trimethylation-specific demethylase, converting the trimethylated histone H3 Lys27 residue to the dimethylated form, and is thought to also function as a transcriptional repressor. JMJD3 plays a central role in regulation of posterior development, by regulating HOX gene expression. It is involved in inflammatory response by participating in macrophage differentiation in case of inflammation by regulating gene expression and macrophage differentiation. JMJD3 can also interact with and demethylate p53, resulting in its stabilization and localization to the nucleus in mouse embryo fibroblasts during neural stem cell differentiation.

Submit a product review to Biocompare.com

[Submit a review of this product](#) to Biocompare.com to receive a \$20 Amazon.com giftcard! Your reviews help your fellow scientists make the right decisions. Thank you for your contribution.



Overview

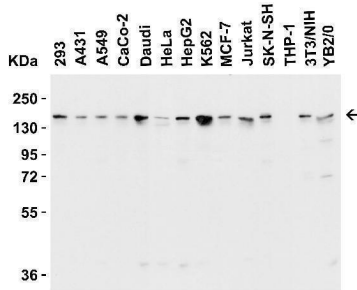
Product Name	Anti-JMJD3 KDM6B Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-JMJD3 KDM6B Antibody (Catalog # A01309). Tested in ELISA, WB, ICC, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, ICC, WB
Clonality	Polyclonal
Formulation	JMJD3 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	JMJD3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	O15054

Technical Details

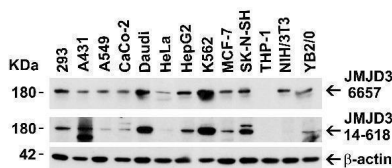
Immunogen	Anti-JMJD3 antibody was raised against a peptide corresponding to 16 amino acids near the carboxy terminus of human JMJD3. The immunogen is located within amino acids 1370-1420 of JMJD3.
Predicted Reactive Species	Rat

Cross Reactivity	This antibody is specific for JMJD3 and will not recognize other JMJD proteins.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	JMJD3 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	WB: 0.25-4 ug/mL; ICC: 2.5 ug/mL; IF: 20 ug/mL. Antibody validated: Western Blot in human, mouse and rat samples; Immunocytochemistry in human samples; Immunofluorescence in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

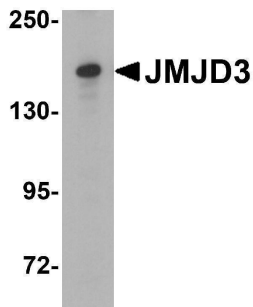
Anti-JMJD3 KDM6B Antibody (A01309) Images



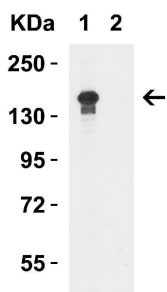
Western Blot Validation in Human, Mouse and Rat Cell Lines
Loading: 15 ug of lysates per lane. Antibodies: JMJD3, A01309, (1 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



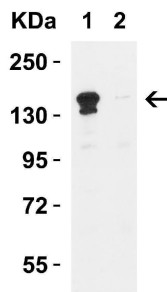
Independent Antibody Validation (IAV) via Protein Expression Profile in Cell Lines Loading: 15 ug of lysates per lane. Antibodies: JMJD3 A01309 (1 ug/mL), JMJD3 14-618, (2 ug/mL) and beta-actin 3779 (1 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



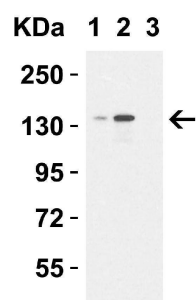
Western Blot Validation in HeLa Cell Lysate Loading: 15 ug of lysates per lane. Antibodies: JMJD3, A01309 (0.25 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



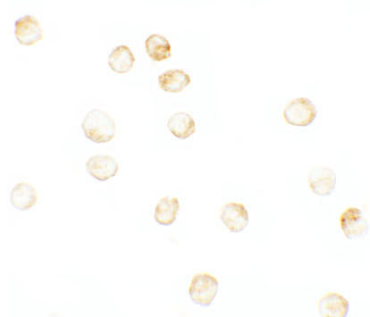
Western Blot Validation in K562 Cell Lysate Loading: 15 ug of lysates per lane. Antibodies: JMJD3, A01309 (0.5 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: in the absence and Lane 2: in the presence of blocking peptide



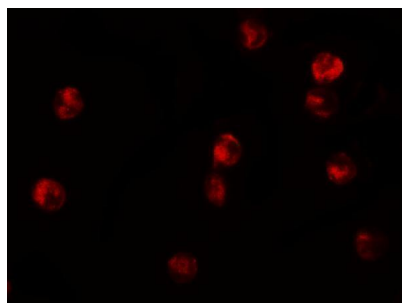
Western Blot Validation in Mouse A-20 Cell Lysate Loading: 15 ug of lysates per lane. Antibodies: JMJD3, A01309 (0.5 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: in the absence and Lane 2: in the presence of blocking peptide



Western Blot Validation in HepG2 Cell Lysate Loading: 15 ug of lysates per lane. Antibodies: : JMJD3, A01309, 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: 0.25 ug/mL Lane 2: 0.5 ug/mL Lane 3: 0.25 ug/mL with blocking peptide



Immunocytochemistry Validation of JMJD3 in K562 Cells
Immunocytochemical analysis of K562 cells using anti-JMJD3 antibody (A01309) at 2.5 ug/ml. Cells was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Immunofluorescence Validation of JMJD3 in K562 Cells
Immunofluorescent analysis of 4% paraformaldehyde-fixed K562 cells labeling JMJD3 with A01309 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red).

Anti-JMJD3 KDM6B Antibody

For Research Use Only. Not for use in diagnostic procedures.