BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

# Anti-TET1 Antibody

**Catalog Number:** A00603

## About TET1

TET1, a member of the ten-eleven-translocation (TET) family of genes, was initially discovered as a fusion partner of MLL in acute myeloid leukemias containing the t(10;11)(q22;q23) (1). It is a methylcytosine dioxygenase that catalyzes the conversion of methylcytosine to 5-hydroxymethylcytosine (2). TET1 expression is regulated during inflammation in both THP-1 and primary dendritic cells, and is a negative transcriptional regulator of IL-1beta following and inflammatory stimulus (3). Recent evidence has shown that TET1 is part of a signaling pathway that regulates breast cancer growth and metastasis (4).

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## Overview

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|---|---|
| Product Name | Anti-TET1 Antibody |
| Reactive Species | Human, Mouse, Rat |
| Description | Boster Bio Anti-TET1 Antibody (Catalog # A00603). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat. |
| Application | ELISA, IF, IHC-P, WB |
| Clonality | Polyclonal |
| Formulation | TET1 Antibody is supplied in PBS containing ≤0.09% sodium azide. |
| Storage Instructions | TET1 antibody can be stored at 4°C, stable for up to one year. |
| Host | Rabbit |
| Uniprot ID | Q8NFU7 |

## Technical Details

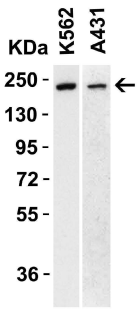
| | |
|---|---|
| Immunogen | Anti-TET1 antibody was raised against an 18 amino acid peptide near the carboxy terminus of human TET1. The immunogen is located within amino acids 2030 - 2080 of TET1. |
| Predicted Reactive Species | Bovine, Pig |
| Cross Reactivity | TET1 antibody is human, mouse and rat reactive. This antibody is predicted to not cross-react with TET2 and TET3. |

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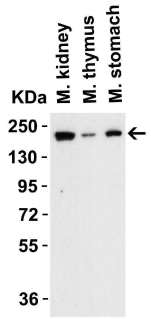
| | |
|---|---|
| Isotype | IgG |
| Form | Liquid |
| Concentration | 1 mg/mL |
| Purification | TET1 antibody is affinity chromatography purified via peptide column. |
| Suggested Dilutions | WB: 1 ug/mL; IHC: 1 ug/mL; IF: 20 ug/mL.<br>Antibody validated: Western Blot and Immunohistochemistry in human, mouse and rat samples; Immunocytochemistry in human samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher. |

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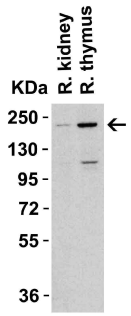
# Anti-TET1 Antibody (A00603) Images



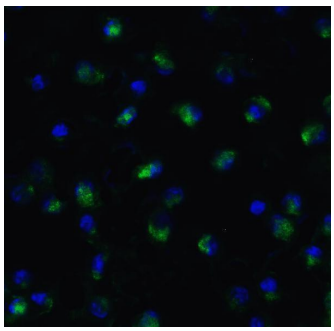

WB Validation of TET1 in Human Cell Lines Loading: 15 ug of lysate Antibodies: TET1 A00603, 1 ug/mL , 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.




WB Validation of TET1 in Mouse Tissues Loading: 15 ug of lysate Antibodies: TET1 A00603 , 1 u g/mL , 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.



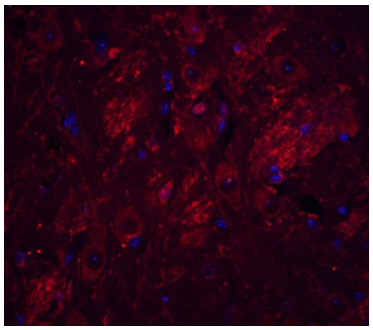

WB Validation of TET1 in Rat Tissues Loading: 15 ug of lysate Antibodies: TET1 A00603, 1 ug/mL , 1 h incubation at RT in 5% NFDM/TBST. Secondary: Goat Anti-Rabbit IgG HRP conjugate at 1:10000 dilution.

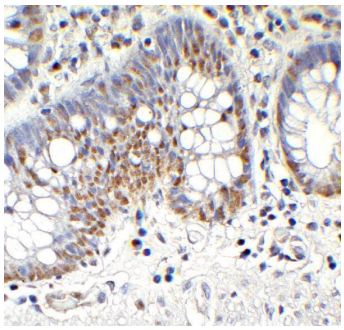


Immunofluorescence Validation of TET1 in HeLa Cells Immunofluorescent analysis of 4% paraformaldehyde-fixed Hela cells labeling TET1 with A00603 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI antibody (blue).

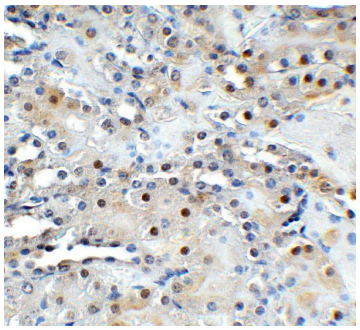
Immunofluorescence Validation of TET1 in Mouse Brain Tissue Immunofluorescent analysis of 4% paraformaldehyde-fixed mouse brain tissue labeling TET1 with A00603 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red) and DAPI antibody (blue).

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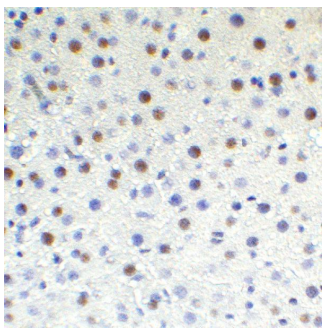




Immunohistochemistry Validation of TET1 in Human Testis Tissue Immunohistochemical analysis of paraffin-embedded human testis tissue using anti-TET1 antibody (A00603) at 1 ug/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with 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.



Immunohistochemistry Validation of TET1 in Mouse Kidney Tissue Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-TET1 antibody (A00603) at 1 ug /ml. Tissue 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.



Immunohistochemistry Validation of TET1 in Rat Liver Tissue Immunohistochemical analysis of paraffin-embedded rat liver tissue using anti-TET1 antibody (A00603) at 1 ug /ml. Tissue 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.

## Anti-TET1 Antibody

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