

Datasheet for ABIN5596980
anti-TET3 antibody (N-Term)[Go to Product page](#)

1 Image

Overview

| | |
|----------------------|-------------------------------------|
| Quantity: | 100 µL |
| Target: | TET3 |
| Binding Specificity: | N-Term |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This TET3 antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA |

Product Details

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| Immunogen: | Immunogen: TET3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a human TET-3 domain containing the N-terminal 160 amino acids of the protein. Immunogen Type: Recombinant Protein |
| Cross-Reactivity (Details): | It is directed against, and shows specific reactivity for Tet3 protein. Cross reactivity with Tet1 and Tet2 has not been determined. |
| Purification: | Anti-TET3 Antibody was prepared from whole rabbit antiserum by delipidation and defibrination. The antiserum was further cross-absorbed against MBP by chromatography. |

Target Details

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| Target: | TET3 |
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Target Details

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| Alternative Name: | TET3 (TET3 Products) |
| Background: | <p>Synonyms: TET antibodies, Anti-TET Methylcytosine Dioxygenase 3, Anti-TET3 polyclonal antibody, KIAA0401 antibody, dioxygenase antibodies</p> <p>Background: Anti-Tet3 is expressed in colon, muscle, adrenal gland and peripheral blood lymphocytes. Anti-Tet3 is involved in the epigenetic chromatin reprogramming of a zygote after its fertilization, and the demethylation occurs before the first cell division in the paternal pronucleus. Tet 3 antibody cannot bind to the maternal pronucleus chromatin due to DPPA3/PGC7 chromatin presence. Tet 3 functions as the dioxygenase which synthesizes a hydroxyl group to 5-methylcytosine (5mC) to form 5-hydroxymethylcytosine. Tet3 mediates the formation of 5-formylcytosine from 5hmC and subsequently 5fC to 5-carboxylcytosine, and consequently Tet3 plays an active role in catalyzing those conversions which have been suggested as the first step for cytosine DNA de-methylation. Tet 3 also recruits O-GlcNAc transferase OGT to aid H2B GlcNAcylation by OGT. Anti-TET3 antibodies are ideal for researchers interested in Epigenetics, Cancer, Chromatin Research and Histone research.</p> |
| Gene ID: | 200424 |
| UniProt: | O43151 |
| Pathways: | Warburg Effect |

Application Details

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| Application Notes: | <p>Application Note: Tet3 antibody has been tested for use by ELISA and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect band at ~180 kDa.</p> <p>Western Blot Dilution: 1:5000</p> <p>ELISA Dilution: 1:50,000</p> |
| Restrictions: | For Research Use only |

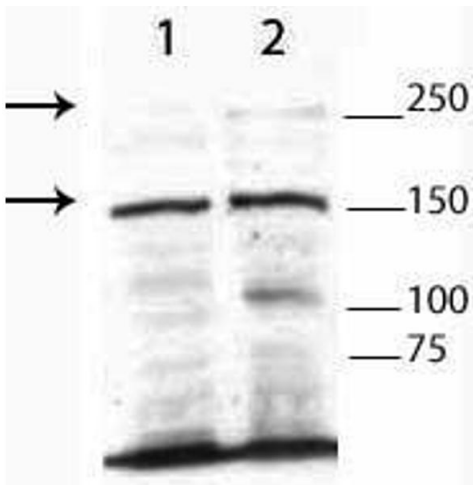
Handling

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| Format: | Liquid |
| Concentration: | 70 mg/mL |
| Buffer: | <p>Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2</p> <p>Stabilizer: None</p> |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which |

Handling

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| | should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use. |
| Expiry Date: | 12 months |

Images



Western Blotting

Image 1. Western Blot of Rabbit Anti-TET3 Antibody. Lane 1: CEM nuclear extract. Lane 2: THP-1 nuclear extract. Load: 25 µg per lane. Primary antibody: TET3 antibody at 1:1000 for overnight at 4°C. Secondary antibody: HRP rabbit secondary antibody at 1:5000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: Isoforms of TET3 include 180kDa, 167kDa and 78kDa. Other band(s): nonspecific.