

Datasheet for 600-401-FC8**TET1 Antibody****Overview**

Description:	Anti-TET1 (RABBIT) Antibody - 600-401-FC8
Item No.:	600-401-FC8
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	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).
Synonyms:	TET1 Antibody, LCX, CXXC6, bA119F7.1, KIAA1676, LCX, Methylcytosine dioxygenase TET1, CXXC-type zinc finger protein 6
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TET1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-TET1 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid peptide near the C-terminus of human TET1.

Purity/Specificity: Anti-TET1 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. TET1 antibody is human, mouse and rat reactive. This antibody is predicted to not cross-react with TET2 and TET3.

Relevant Links:

- [UniProtKB - Q8NFU7](#)
- [GeneID - 80312](#)
- [NCBI - NP_085128.2](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-TET1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 235 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000 - 1:20,000

IF: 20 µg/mL

IHC: 5 µg/mL

WB: 1-2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

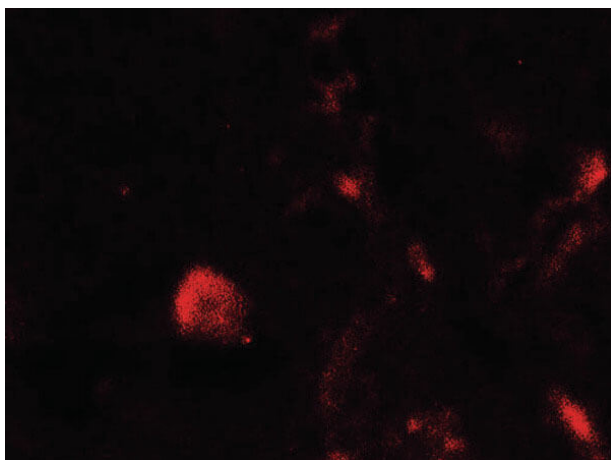
Shipping & Handling

Shipping Condition: Dry Ice

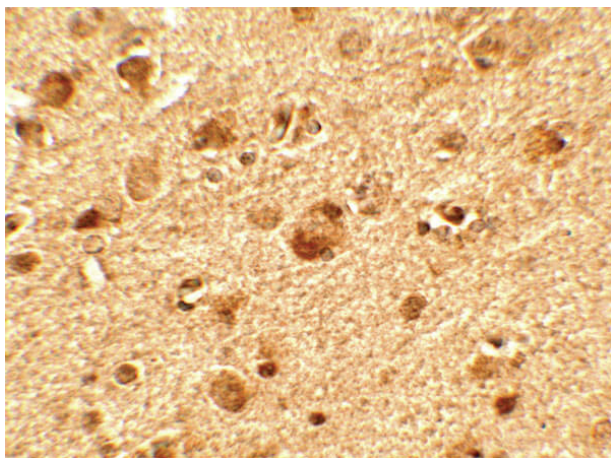
Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration:

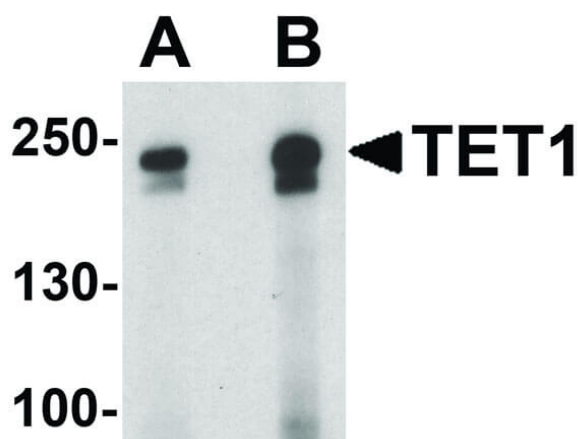
Expiration date is one (1) year from date of receipt.

Images**Immunofluorescence Microscopy**

Immunofluorescence Microscopy of Rabbit anti-TET1 antibody. Tissue: human brain. Primary antibody: TET1 antibody at 20 $\mu\text{g/mL}$. Secondary antibody: Fluorescein rabbit secondary antibody at 1:20,000. Localization: TET1 is nuclear. Staining: TET1 as red fluorescent signal.

**Immunohistochemistry**

Immunohistochemistry of Rabbit anti-TET1 antibody. Tissue: human brain. Primary antibody: TET1 antibody at 5 $\mu\text{g/mL}$. Secondary antibody: Peroxidase rabbit secondary antibody at 1:5,000. Localization: TET1 is nuclear. Staining: TET-1 as precipitated brown signal.

**Western Blot**

Western Blot of Rabbit anti-TET1 antibody. Lane A: rat brain tissue lysate at 1 $\mu\text{g/mL}$. Lane B: rat brain tissue lysate at 2 $\mu\text{g/mL}$. Primary antibody: TET1 antibody overnight at 4°C. Secondary antibody: Goat anti-Rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 235 kDa, 240 kDa for TET1.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.