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anti-TET1 antibody (C-Term)

2 Images



Go to Product page

Overview

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Quantity:	0.4 mL
Target:	TET1
Binding Specificity:	C-Term
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TET1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA
Product Details	
Immunogen:	This mouse Tet1 antibody was produced from a rabbit immunized with a KLH conjugated
	synthetic peptide between 1845-1879 amino acids from the C-terminal region of mouse Tet1.
Isotype:	Ig Fraction
Purification:	Antigen affinity purified
Target Details	
Target:	TET1
Alternative Name:	Tet1 (TET1 Products)
Background:	Tet1 is a dioxygenase that catalyzes the conversion of the modified genomic base 5-
	methylcytosine (5mC) into 5-hydroxymethylcytosine (5hmC) and plays a key role in active DNA
	demethylation. Also mediates subsequent conversion of 5hmC into 5-formylcytosine (5fC), and

conversion of 5fC to 5-carboxylcytosine (5caC). Conversion of 5mC into 5hmC, 5fC and 5caC probably constitutes the first step in cytosine demethylation. Methylation at the C5 position of cytosine bases is an epigenetic modification of the mammalian genome which plays an important role in transcriptional regulation. In addition to its role in DNA demethylation, plays a more general role in chromatin regulation. Preferentially binds to CpG-rich sequences at promoters of both transcriptionally active and Polycomb-repressed genes. Involved in the recruitment of the O-GlcNAc transferase OGT to CpG-rich transcription start sites of active genes, thereby promoting histone H2B GlcNAcylation by OGT. Also involved in transcription repression of a subset of genes through recruitment of transcriptional repressors to promoters. Involved in the balance between pluripotency and lineage commitment of cells it plays a role in embryonic stem cells maintenance and inner cell mass cell specification. [UniProt]

UniProt:

O3URK3

Pathways:

Stem Cell Maintenance, Warburg Effect

Application Details

Application Notes:

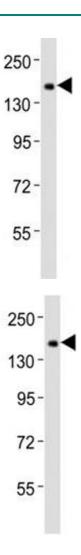
Titration of the Tet1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:2000

Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	In 1X PBS, pH 7.4, with 0.09 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Aliquot the Tet1 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



Western Blotting

Image 1. Western blot testing of Tet1 antibody at 1:2000 dilution + F9 lysate; Predicted band size : 219 kDa.

Western Blotting

Image 2. Western blot testing of Tet1 antibody at 1:2000 dilution + F9 lysate