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## anti-TET1 antibody (C-Term)



Image



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#### Overview

Quantity:	100 μL
Target:	TET1
Binding Specificity:	C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TET1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Chromatin Immunoprecipitation (ChIP), ChIP DNA-Sequencing (ChIP-seq)

#### **Product Details**

conversion of the modified genomic base 5-m	
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oxidation via Tet proteins to 5-formylcytosine deamination into 5-hydroxymethyluracil (5hm unmethylated cytosine by the base excision recytosine bases is an epigenetic modification of	d to cytosine demethylation by either further (5fC) and 5-carboxycytosine (5caC) or U) and then subsequent replacement by epair system. Methylation at the C5 position of the mammalian genome which plays an et1 preferentially binds to CpG-rich sequences at

levels of 5mC and 5hmC at gene promoters, it may regulate the gene expression silencing induced by cytosine methylation. May have a dual function by also repressing the expression 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. Tet1 antibody (pAb) was raised in a Rabbit host. It has been validated for use in Chromatin Immunoprecipitation, ChIP-Seq, Immunohistochemistry and Western blot, it has been shown to react with Human and Mouse samples.

Purification:

Affinity Purified

#### **Target Details**

Target:	TET1
Alternative Name:	Tet1 (TET1 Products)
Molecular Weight:	215 kDa
NCBI Accession:	NP_081660
Pathways:	Stem Cell Maintenance, Warburg Effect

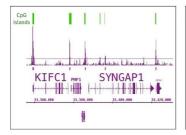
#### **Application Details**

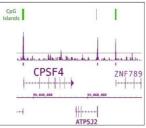
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

### Handling

Buffer:	Purified IgG in PBS with 30 % glycerol and 0.035 % 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:	Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -

20°C for up to 2 years. Keep all reagents on ice when not in storage.





#### **ChIP DNA-Sequencing**

**Image 1.** Tet1 antibody (pAb) tested by ChIP-Seq. ChIP was performed using the ChIP-IT High Sensitivity Kit with 25  $\mu$ g of chromatin from a human testicle and 4  $\mu$ L of TET1 antibody. ChIP DNA was sequenced on the Illumina HiSeq and 15 million sequence tags were mapped to identify TET1 binding sites. TET1 ChIP-Seq data shows the expected enrichment of TET1 at CpG islands.