

Mouse anti-Human, Mouse TET1 Antibody | anti-TET1 antibody

AbFlex TET1 antibody (rAb)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA60267	Mouse	Human, Mouse	Chromatin Immunoprecipitation, Immunoprecipitation

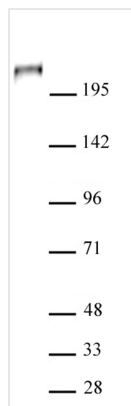
PRODUCT SYNONYMS

TET1; AbFlex TET1 antibody (rAb); LCX; Cxxc6; AA517754; BB001228; mKIAA1676; D10Erttd17e; 2510010B09Rik; anti-TET1 antibody

PRODUCT SPECIFICATIONS

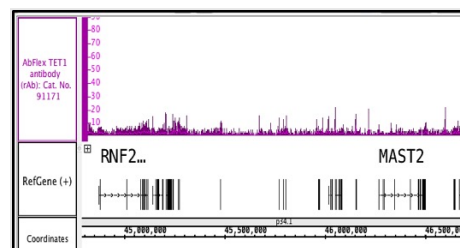
Host	Mouse
Reactivity	Human, Mouse
Isotype	IgG2a
Purity/Purification	Protein A Chromatography
Form/Format	Purified IgG in 140mM Hepes, pH7.5, 70mM NaCl, 32mM NaOAc, 0.035% sodium azide, 30% glycerol. Sodium azide is highly toxic.
Concentration	1ug/ul (varies by lot)
Applicable Applications for anti-TET1 antibody	ChIP (Chromatin immunoprecipitation)
Antibody Type	Recombinant Antibody
Immunogen	This antibody was raised against a recombinant protein comprising amino acids 1682-1914 of mouse TET1 (Ten-Eleven Translocation-1; methylcytosine dioxygenase).
Preparation and Storage	Some products may be shipped at room temperature. This will not affect their stability or performance. Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -20 degree C for up to 2 years. Keep all reagents on ice when not in storage.1ug/ul

IMAGES



WB (Western Blot)

Western blot of AbFlex TET1 antibody. 20 ug nuclear lysate from F9 (mouse testis embryonal carcinoma) cells was probed by Western Blot using 2 ug/mL of antibody.



ChIP (Chromatin Immunoprecipitation)

AbFlex TET1 antibody tested by ChIP-Seq. ChIP was performed using AbFlex TET1 recombinant antibody with 30 ug chromatin from human brain tumor cells and 4 ul of antibody. ChIP DNA was sequenced on the Illumina HiSeq and 13 million sequence tags were mapped to identify TET1 binding sites. The image shows binding across a region of chromosome 1.

ADDITIONAL INFORMATION

Related Product Information for anti-TET1 antibody	Short Description: AbFlex antibodies are recombinant antibodies (rAbs) that have been generated using defined DNA sequences to produce highly specific, reproducible antibodies. Each AbFlex antibody contains a 6xHis-tag, a Biotinylation Tag for enzymatic biotin conjugation using the biotin ligase, BirA, and a sortase recognition motif (LPXTG) to attach a variety of labels directly to the antibody including fluorophores, enzymatic substrates (HRP, AP), peptides, drugs as well as solid supports. Our AbFlex TET1 antibody (rAb) was raised in a Mouse host. It has been validated for use in ChIP-Seq; it has been shown to react with Human and Mouse samples. Background: AbFlex antibodies are recombinant antibodies (rAbs) that have been generated using defined DNA sequences to produce highly specific, reproducible antibodies. Each AbFlex antibody contains a 6xHis-tag, a Biotinylation Tag for enzymatic biotin conjugation using the biotin ligase, BirA, and a sortase recognition motif (LPXTG) to attach a variety of labels directly to the antibody including fluorophores, enzymatic substrates (HRP, AP), peptides, drugs as well as solid supports. AbFlex TET1 antibody was expressed as full-length IgG with mouse immunoglobulin heavy and light chains (IgG2a isotype) in mammalian 293 cells. TET1(Ten-Eleven Translocation-1; methylcytosine dioxygenase) is a protein that catalyzes the conversion of the modified genomic base 5-methylcytosine (5mC) into 5-hydroxymethylcytosine (5hmC) which can lead to cytosine demethylation by either further oxidation via TET proteins to 5-formylcytosine (5fC) and 5-carboxycytosine (5caC) or deamination into 5-hydroxymethyluracil (5hmU) and then subsequent replacement by unmethylated cytosine by the base excision repair system. Methylation at the C5 position of cytosine bases is an epigenetic modification of the mammalian genome which plays an important role in transcriptional regulation. TET1 preferentially binds to CpG-rich sequences at promoters of both transcriptionally active and polycomb-repressed genes. By controlling the 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.
Product Categories/Family for anti-TET1 antibody	Primary Antibodies

NCBI AND UNIPROT INFORMATION

Molecular Weight	215kDa
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/mouse-human-mouse-antibody/tet1/60267>