Datasheet for ABIN7159634

anti-TET1 antibody (AA 1700-1800) (Biotin)

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Overview

Quantity:	100 µg
Target:	TET1
Binding Specificity:	AA 1700-1800
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TET1 antibody is conjugated to Biotin
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Methylcytosine dioxygenase TET1 protein (1700-1800AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	TET1
Alternative Name:	TET1 (TET1 Products)
Background:	Background: 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

Target Details

	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. Plays an important role in the tumorigenicity of glioblastoma cells. TET1-mediated production of 5hmC acts as a recruitment signal for the CHTOP-methylosome complex to selective sites on the chromosome, where it methylates H4R3 and activates the transcription of genes involved in glioblastomagenesis (PubMed:25284789). Aliases: bA119F7.1 antibody, CXXC 6 antibody, CXXC finger 6 antibody, CXXC type zinc finger protein 6 antibody, CXXC zinc finger 6 antibody, CXXC-type zinc finger protein 6 antibody, CXXC6 antibody, KIAA1676 antibody, LCX antibody, Leukemia associated protein with a CXXC domain antibody, Leukemia-associated protein with a CXXC domain antibody, Methylcytosine dioxygenase TET1 antibody, Ten eleven translocation 1 antibody, Ten eleven translocation 1 gene protein antibody, Ten eleven translocation 1 gene protein homolog antibody, Ten-eleven translocation 1 gene protein antibody, Tet 1 antibody, Tet methylcytosine dioxygenase 1 antibody, Tet oncogene 1 antibody, TET1 antibody, TET1_HUMAN antibody
UniProt:	Q8NFU7
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

Format:	Liquid

Handling

Buffer:	Preservative: 0.03 % Proclin 300 Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.