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Datasheet for ABIN6945142
anti-TET2 antibody

Overview

Quantity:	50 µg
Target:	TET2
Reactivity:	Human, Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TET2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Immunogen:	Monoclonal antibody raised in mouse against a recombinant protein containing the N-terminal 300 amino acids of human TET2 (tet oncogene family member 2).
Clone:	6A1
Isotype:	IgG1
Cross-Reactivity:	Human, Mouse
Purification:	Protein G purified polyclonal antibody in PBS containing 0.05% azide

Target Details

Target:	TET2
Alternative Name:	TET2 (TET2 Products)
Background:	Synonyms: Methylcytosine dioxygenase TET2, TET2, KIAA1546

Target Details

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 demethylation. Has a preference for 5-hydroxymethylcytosine in CpG motifs. 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, also 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.

Gene ID: 54790

UniProt: [Q6N021](#)

Pathways: [Warburg Effect](#)

Application Details

Application Notes: WB 1:300-5000
IP(1-2 µg)

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: PBS with 0.05 % sodium azide.

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

Storage Comment: Store at -20°C for 12 months.

Expiry Date: 12 months