



TET2 mouse mAb

Catalog No	YP-mAb-17254
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	TET2 KIAA1546 Nbla00191
Immunogen	Synthesized peptide derived from human C-terminal TET2
Specificity	This antibody detects endogenous levels of TET2 at Human, Mouse
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Mouse, Monoclonal
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	EC:1.14.11.80;KIAA1546;Methylcytosine dioxygenase TET2;Nbla00191;TET2;TET2 KIAA1546 Nbla00191;Methylcytosine dioxygenase TET2 (EC 1.14.11.n2)
Observed Band	130 kDa, 250 kDa
Calculated Molecular Weight	2002 aa, 224 kDa
Cell Pathway	
Tissue Specificity	Broadly expressed. Highly expressed in hematopoietic cells; highest expression observed in granulocytes. Expression is reduced in granulocytes from peripheral blood of patients affected by myelodysplastic syndromes.
Function	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.

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images