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Product datasheet for TA347306

TET2 Mouse Monoclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IP, WB
Recommended Dilution:	Western blotting (1:1,000-1:1,200); IP (5ug per mg of RIPA lysate)
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	The immunogen for anti-TET2 antibody: the a recombinant protein containing the N-terminal 300 amino acids of human TET2 (tet oncogene family member 2).
Concentration:	lot specific
Purification:	Protein G purified polyclonal antibody in PBS containing 0.05% azide.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	tet methylcytosine dioxygenase 2
Database Link:	NP_001120680 Entrez Gene 214133 MouseEntrez Gene 54790 Human Q6N021
Background:	TET2 (UniProt/Swiss-Prot entry Q6N021) is a methylcytosine dioxygenase that catalyzes the conversion of 5-methylcytosine to 5-hydroxymethylcytosine (5-hmC). 5-hmC has been recently discovered in mammalian DNA and is abundant in Purkinje neurons, granule cells, embryonic stem cells, and brain tissue, especially in areas that are associated with higher cognitive function. Although its precise role has still to be shown, recent studies indicate that 5-hmC plays important roles distinct from 5-mC. Early evidence suggests that 5-hmC may represent a new pathway to demethylate DNA involving a repair mechanism converting 5-hmC to cytosine. Mutations in TET2 have been associated with myeloproliferative diseases such as essential thrombocythemia, polycythemia vera and primary myelofibrosis.
Synonyms:	KIAA1546; MDS

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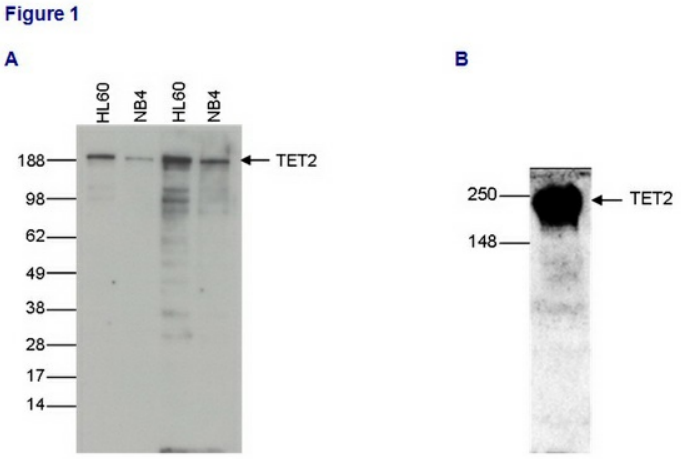
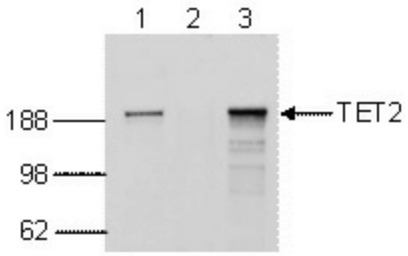
Product images:



WB using the antibody against TET2, diluted 1:2,000 (lane 1 and 2) or 1:1,000 (lane 3 and 4) in PBS containing 10% milk. The position of the protein of interest (expected MW 224 kDa) is indicated on the right; the marker (in kDa) is shown on the left. Figure 2B. WB on mouse E14 ES cells. The antibody was used at a dilution of 1:1,000.



Immunoprecipitation using the antibody against TET2 IP was performed on 250 ug HL60 RIPA cell lysate using the antibody against TET2 (lane 3) or an IgG negative control (lane 2). The samples were analysed by WB analysis as described above. The input sample (25 ug RIPA lysate) was used as a positive control (lane 1).