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TET2 (isoform 2) Antibody, Rabbit Polyclonal

Cat#: R1086-1h

Quantity: 100 ul

Predicted I Observed M.W.: 130 kDa

Lot#: Refer to vial

Application: WB

Uniprot ID: Q6N021

Background:

TET2 is a methylcytosine dioxygenase that catalyzes the conversion of methylcytosine (5mC) to 5-hydroxymethylcytosine (5hmC). 5-hydroxymethylcytosine may influence chromatin structure and recruit specific factors or may constitute an intermediate component in cytosine demethylation. TET2 plays an important role in myelopoiesis, and defects in TET2 gene have been associated with several myeloproliferative disorders. Human TET2 isoform 2 is a 130 kD truncated protein missing the C-terminal 836 a.a. as compared to the full-length protein with a unique C-terminal sequence. The function of this isoform is not well understood.

Other Names:

Methylcytosine dioxygenase TET2, KIAA1546

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the unique C-terminal region of human TET2 isoform 2 that differs from the full length protein. Antibodies were purified by affinity purification using immunogen.

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN₃. Store at -20 °C. Stable for 6 months from date of receipt.

Species Specificity:

Human

Tested Applications:

WB: 1:1,000-1:3,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

Product Data:

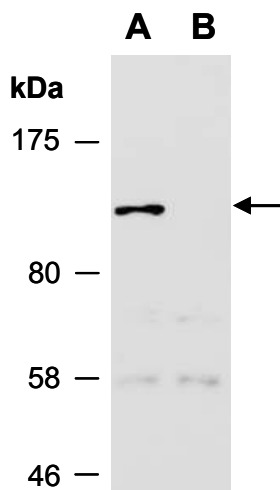


Fig 1. Western blot of total cell extracts from (A) human Jurkat, (B) mouse thymus; using anti-TET2 (isoform 2) (R1086-1h) at RT for 2 h. This Ab specifically recognizes the 130 kD human TET2 isoform 2, which is absent in mouse [Langemeijer S. et al., Nat Genet. (2009) 41:838].