

Product datasheet for **TA396537S**

TET3 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	WB: 1:5000 ELISA: 1:50,000
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	TET3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a human TET-3 domain containing the N-terminal 160 amino acids of the protein.
Specificity:	Anti-TET3 Antibody was prepared from whole rabbit antiserum by delipidation and defibrination. The antiserum was further cross-absorbed against MBP by chromatography. It is directed against, and shows specific reactivity for Tet3 protein. Cross reactivity with Tet1 and Tet2 has not been determined.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	70mg/mL - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is one (1) year from date of receipt.
Gene Name:	tet methylcytosine dioxygenase 3
Database Link:	Entrez Gene 200424 Human O43151



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Background:

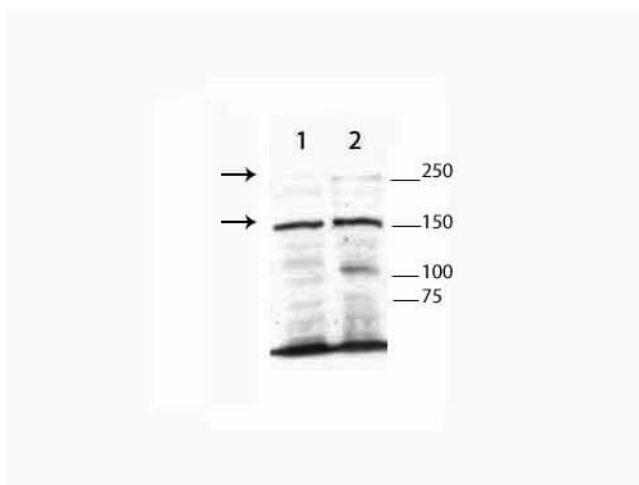
Anti-Tet3 is expressed in colon, muscle, adrenal gland and peripheral blood lymphocytes. Anti-Tet3 is involved in the epigenetic chromatin reprogramming of a zygote after its fertilization, and the demethylation occurs before the first cell division in the paternal pronucleus. Tet 3 antibody cannot bind to the maternal pronucleus chromatin due to DPPA3/PGC7 chromatin presence. Tet 3 functions as the dioxygenase which synthesizes a hydroxyl group to 5-methylcytosine (5mC) to form 5-hydroxymethylcytosine. Tet3 mediates the formation of 5-formylcytosine from 5hmC and subsequently 5fC to 5-carboxylcytosine, and consequently Tet3 plays an active role in catalyzing those conversions which have been suggested as the first step for cytosine DNA de-methylation. Tet 3 also recruits O-GlcNAc transferase OGT to aid H2B GlcNAcylation by OGT. Anti-TET3 antibodies are ideal for researchers interested in Epigenetics, Cancer, Chromatin Research and Histone research.

Synonyms:

rabbit anti-TET3 Antibody, TET antibodies, Anti-TET Methylcytosine Dioxygenase 3, Anti-TET3 polyclonal antibody, KIAA0401 antibody, dioxygenase antibodies

Note:

Tet3 antibody has been tested by Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect band at ~180kDa. This antibody is suitable for use by ELISA.

Product images:

Western Blot of Rabbit Anti-TET3 Antibody. Lane 1: CEM nuclear extract. Lane 2: THP-1 nuclear extract. Load: 25 µg per lane. Primary antibody: TET3 antibody at 1:1000 for overnight at 4°C. Secondary antibody: HRP rabbit secondary antibody at 1:5000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: Isoforms of TET3 include 180kDa, 167kDa and 78kDa. Other band(s): nonspecific.