OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA396536S

TET2 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:	TET2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a human TET-2 domain containing the N-terminal 156 aminoacids of the protein.
Specificity:	Anti-TET2 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 human Tet2 protein. Cross reactivity with Tet1 and Tet3 has not been determined.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	72.50 mg/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 2
Database Link:	Entrez Gene 54790 Human Q6N021

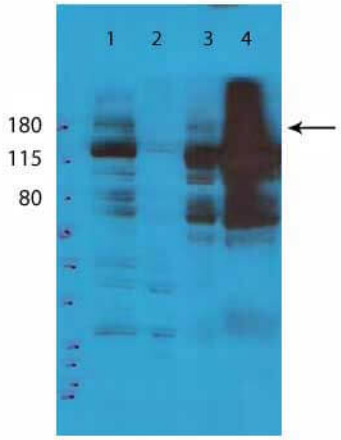
View online »

Background: Tet2 antibody is a dioxygenase enzyme which is associated with the addition of the hydroxyl group to 5-methylcystosine (5mC) to form 5-hydroxymethylcystosine. Tet2 mediates the formation of 5-formylcystosine from 5hmC and subsequently 5fC to 5-carboxylcystosine, and consequently Tet2 plays an active role in catalyzing those conversions which have been suggested as the first step for active mammalian DNA de-methylation. Tet2 enzyme aids in the epigenetic modification of mammalian cystosine bases, ultimately affecting transcriptional regulation. Additionally methylcystosine dioxygenase Tet2 recruits O-GlcNAc transferase OGT enzyme to CpG-rich transcription start sites of the gene, encouraging H2B GlcNAcylation by OGT. Anti-TET2 antibodies are ideal for researchers interested in Epigenetics, Cancer, Chromatin Research and Histone research.

Synonyms: rabbit anti-TET2 Antibody, Tet2 antibody, Methylcytosine dioxygenase TET2, KIAA1546 antibody, myeloproliferative disorder antibody, MPD antibody, hematopoietic cell antibody, TET2 antibody, Tet oncogene 2 antibody, MDS antibody, TET2_HUMAN antibody

Note: Tet2 antibody has been tested by Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect band at ~230kDa and ~150kDa (isoforms). This antibody is suitable for use by ELISA.

Product images:



Western Blot of Rabbit Anti-Tet2 Antibody. Lane 1: Whole Cell Extract. Lane 2: Cytosolic Extract. Lane 3: Nuclear Extract. Lane 4: Chromatin Fraction. Load: 25 µg per lane of HEK293T. Primary antibody: TET2 antibody at 1:5000 for 5 hours at room temperature. Secondary antibody: HRP rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~230 and ~150kDa. Other band(s): nonspecific.