

Datasheet for 100-401-N93S**TET2 Antibody****Overview**

Description:	Anti-TET2 (RABBIT) Antibody - 100-401-N93S
Item No.:	100-401-N93S
Size:	25 µL
Applications:	WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Tet2 antibody is a dioxygenase enzyme which is associated with the addition of the hydroxyl group to 5-methylcytosine (5mC) to form 5-hydroxymethylcytosine. Tet2 mediates the formation of 5-formylcytosine from 5hmC and subsequently 5fC to 5-carboxylcytosine, 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 cytosine bases, ultimately affecting transcriptional regulation. Additionally methylcytosine 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
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	TET2
Reactivity:	Human

Immunogen Type:	Recombinant Protein
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.
Purity/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.
Relevant Links:	• UniProtKB - Q6N021 • NCBI - NP_001120680.1 • GeneID - 54790

Application Details

Tested Applications:	WB
Application 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:50,000
WB:	1:5000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	72.50 mg/mL by Refractometry
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

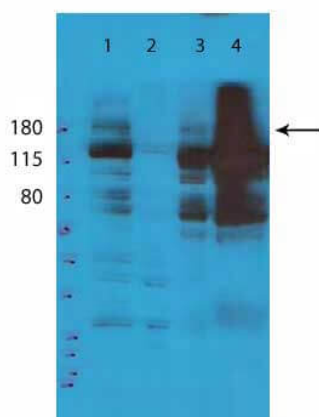
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: 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.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

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: 35 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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.