

Product Datasheet

TET2 Antibody - BSA Free NBP2-32104

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NBP2-32104

TET2 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

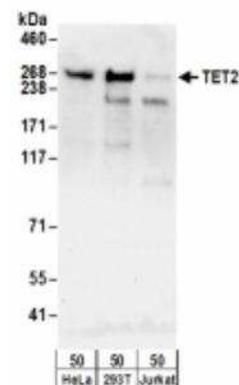
Product Description	
Description	Novus Biologicals Rabbit TET2 Antibody - BSA Free (NBP2-32104) is a polyclonal antibody validated for use in IHC, WB and IP. Anti-TET2 Antibody: Cited in 6 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	54790
Gene Symbol	TET2
Species	Human, Rat
Reactivity Notes	Use in Rat reported in scientific literature (PMID:34874218) .
Immunogen	The immunogen this antibody was made to, maps to a region between residue 100 and 150 of human Tet Oncogene Family Member 2 using the numbering given in entry NP_001120680.1 (GeneID 54790).

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:2000 - 1:10000, Immunohistochemistry, Immunoprecipitation 2 - 10 ug/mg lysate, Immunohistochemistry-Paraffin 1:1000 - 1:5000
Application Notes	Epitope retrieval with Tris-EDTA pH9.0 is recommended for FFPE tissue sections

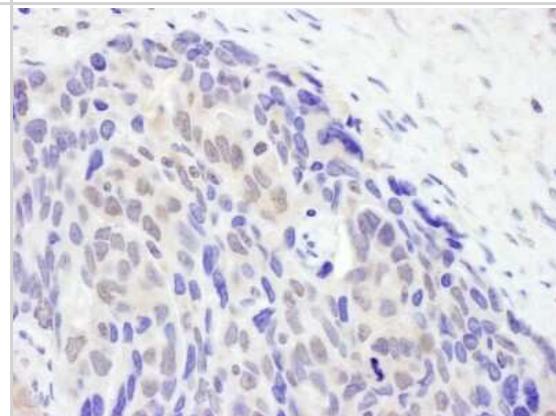


Images

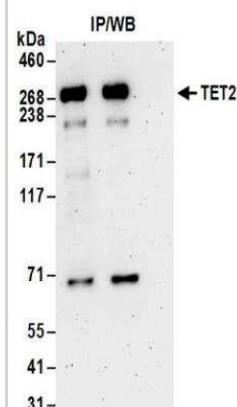
Western Blot: TET2 Antibody [NBP2-32104] - Whole cell lysate (50 ug) from HeLa, 293T, and Jurkat cells. Antibodies: Affinity purified rabbit anti-TET2 antibody used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.



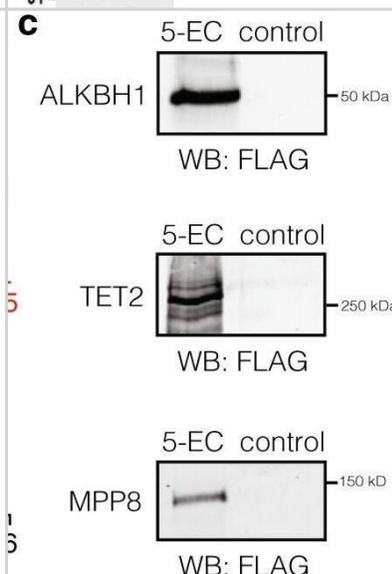
Immunohistochemistry-Paraffin: TET2 Antibody [NBP2-32104] - Human ovarian carcinoma. Antibody: Affinity purified rabbit anti-TET2 used at a dilution of 1:5,000 (0.2ug/ml). Detection: DAB



Western Blot: TET2 Antibody [NBP2-32104] - Whole cell lysate (1 mg for IP; 20% of IP loaded) from 293T cells. Antibodies: Affinity purified rabbit anti-TET2 antibody NBP2-32104 used for IP at 6 ug/mg lysate. TET2 was also immunoprecipitated by rabbit anti-TET2 antibody BL16766. For blotting immunoprecipitated TET2, NBP2-32104 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



Proteomic analysis of m5C dioxygenases using 5-EC RNABPP. a 5-EC RNABPP workflow. Cells are metabolically labeled with 5-EC and crosslinked RNA-protein complexes are isolated by oligo(dT)-based enrichment. Enriched RNA-protein complexes are digested with RNase and then analyzed by mass spectrometry-based proteomics. b Volcano plot showing the enrichment of 5-EC reactive proteins. Experiment was performed independently in triplicate and protein abundance was quantified by spectral counting. Multiple student's unpaired two-sided t-tests were used to assess statistical significance. c Western blot validation of ALKBH1, TET2, and MMP8. 293 Flp-In cells overexpressing the respective FLAG-tagged protein were treated with 1 mM 5-EC or DMSO and subjected to the RNABPP workflow before western blot analysis. Experiments were performed in triplicate with similar results. Source data are provided as a Source Data file. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35853884>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Kon T, Sasaki Y, Abe Y et al. Modulation of AMPK/ TET2/ 5-hmC axis in response to metabolic alterations as a novel pathway for obesity-related colorectal cancer development *Scientific reports* 2023-02-17 [PMID: 36806702] (WB)

Jia M, Li Z, Pan M et al. LINC-PINT suppresses aggressiveness of thyroid cancer by downregulating miR-767-5p to induce TET2 expression *Mol Ther Nucleic Acids* 2020-11-24 [PMID: 33230437]

Arguello AE, Li A, Sun X et al. Reactivity-dependent profiling of RNA 5-methylcytidine dioxygenases *Nature communications* 2022-07-19 [PMID: 35853884] (WB, Human)

Liu X, Cui H The palliative effects of folic acid on retinal microvessels in diabetic retinopathy via regulating the metabolism of DNA methylation and hydroxymethylation *Bioengineered* 2021-12-01 [PMID: 34874218] (Chemotaxis, Rat)

Tucker DW, Getchell CR, McCarthy ET et al. Epigenetic Reprogramming Strategies to Reverse Global Loss of 5-Hydroxymethylcytosine, a Prognostic Factor for Poor Survival in High-grade Serous Ovarian Cancer *Clin. Cancer Res.* 2018-03-15 [PMID: 29263182] (WB, Human)

Fischer AP, Miles SL. Silencing HIF-1alpha induces TET2 expression and augments ascorbic acid induced 5-hydroxymethylation of DNA in human metastatic melanoma cells. *Biochem. Biophys. Res. Commun.* 2017-06-08 [PMID: 28601635] (WB, Human)





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Products Related to NBP2-32104

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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