

# Product Datasheet

## Transketolase Antibody - BSA Free NBP1-87441

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



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**NBP1-87441**

Transketolase Antibody - BSA Free

Product Information	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Affinity purified
<b>Buffer</b>	PBS (pH 7.2) and 40% Glycerol

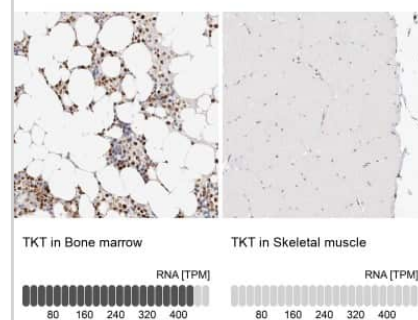
Product Description	
<b>Description</b>	Novus Biologicals Rabbit Transketolase Antibody - BSA Free (NBP1-87441) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Transketolase Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	7086
<b>Gene Symbol</b>	TKT
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	This antibody was developed against Recombinant Protein corresponding to amino acids: IAKTFKGRGITGVEDKESWHGKPLPKNMAEQIIQEIYSQIQSKKKILATPPQEDA PSVDIANIRMPSLPSYKVGDKIATRKYGG

Product Application Details	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 0.04 - 0.4 ug/ml, Immunohistochemistry 1:2500 - 1:5000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:2500 - 1:5000, Knockdown Validated
<b>Application Notes</b>	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization, Use PFA/Triton X-100. Transketolase antibody validated for WB from a verified customer review.

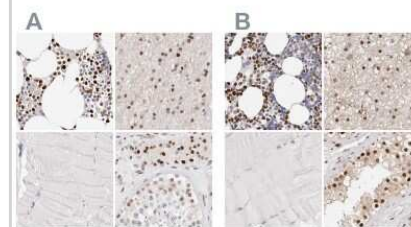


## Images

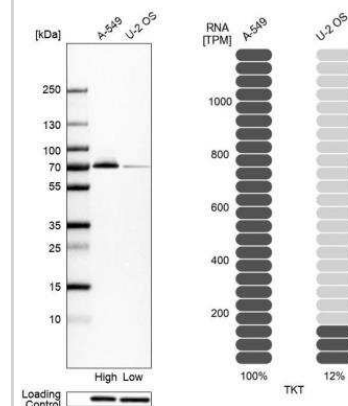
Immunohistochemistry-Paraffin: Transketolase Antibody [NBP1-87441] - Staining in human bone marrow and skeletal muscle tissues using anti-TKT antibody. Corresponding TKT RNA-seq data are presented for the same tissues.



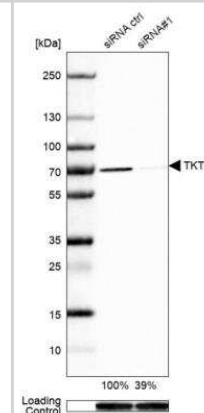
Immunohistochemistry-Paraffin: Transketolase Antibody [NBP1-87441] - Staining of human bone marrow, cerebral cortex, skeletal muscle and testis using Anti-TKT antibody NBP1-87441 (A) shows similar protein distribution across tissues to independent antibody NBP1-87442 (B).



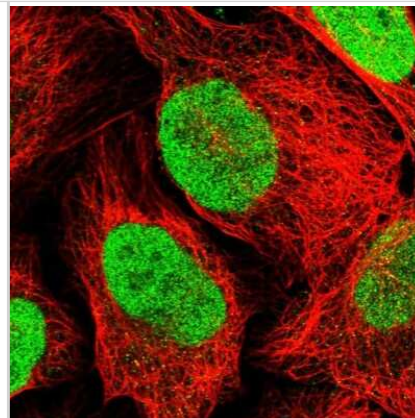
Western Blot: Transketolase Antibody [NBP1-87441] - Western blot analysis in human cell lines A-549 and U2OS. Corresponding RNA-seq data are presented for the same cell lines. Loading control: Anti-HSP90B1.



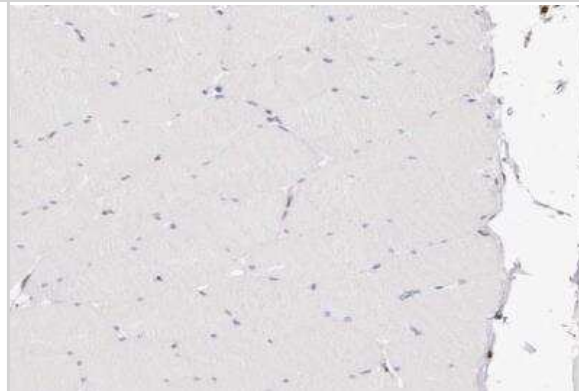
Western Blot: Transketolase Antibody [NBP1-87441] - Analysis in A-549 cells transfected with control siRNA, target specific siRNA probe #1, using Anti-TKT antibody. Remaining relative intensity is presented. Loading control: Anti-GAPDH.



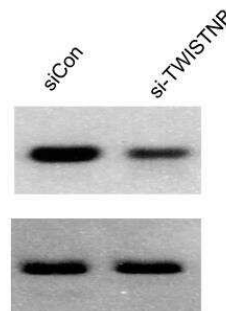
Immunocytochemistry/Immunofluorescence: Transketolase Antibody [NBP1-87441] - Staining of human cell line U-2 OS shows localization to nucleoplasm. Antibody staining is shown in green.



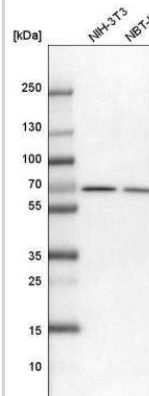
Immunohistochemistry-Paraffin: Transketolase Antibody [NBP1-87441] - Staining of human skeletal muscle shows low expression as expected.



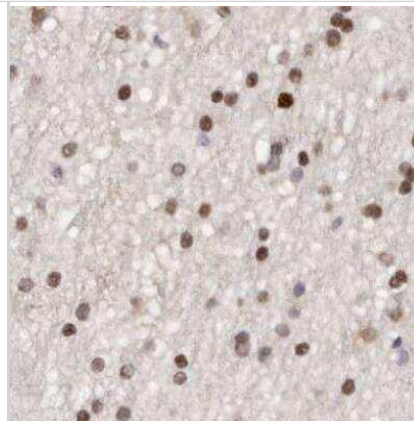
Western Blot: Transketolase Antibody [NBP1-87441] - Analysis of 293T cells lysate after siren treatment with siTWISTNB and siControl Transketolase. Image submitted by a verified customer review.



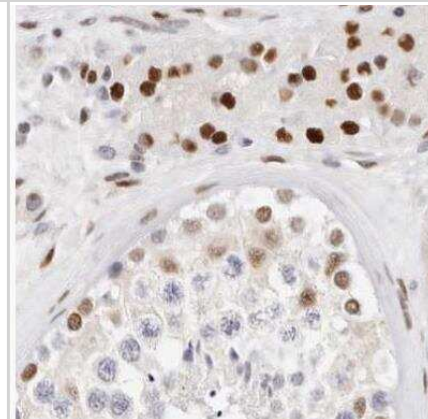
Western Blot: Transketolase Antibody [NBP1-87441] - Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



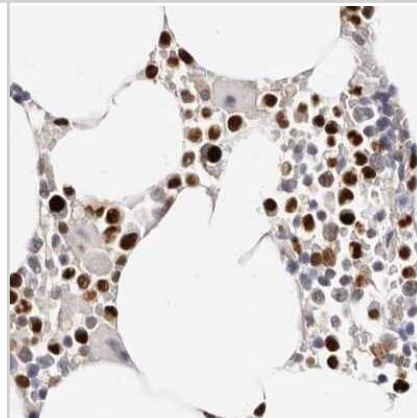
Immunohistochemistry-Paraffin: Transketolase Antibody [NBP1-87441] - Staining of human cerebral cortex using Anti-TKT antibody.



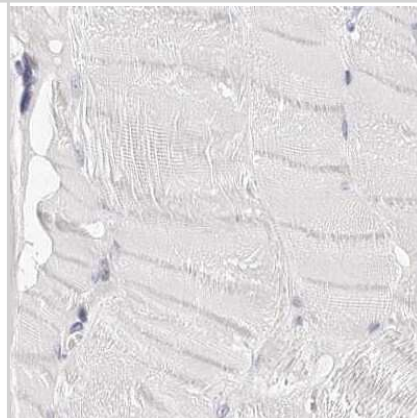
Immunohistochemistry-Paraffin: Transketolase Antibody [NBP1-87441] - Staining of human testis using Anti-TKT antibody.



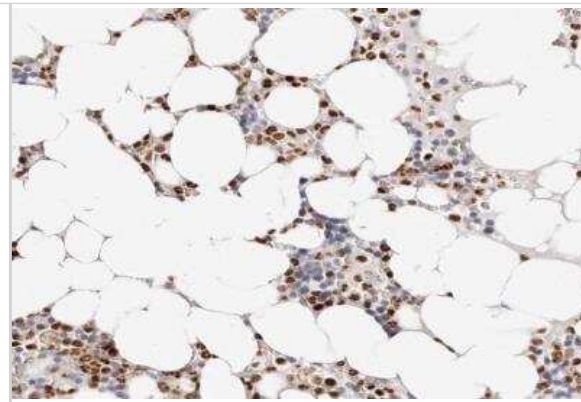
Immunohistochemistry-Paraffin: Transketolase Antibody [NBP1-87441] - Staining of human bone marrow using Anti-TKT antibody NBP1-87441.



Immunohistochemistry-Paraffin: Transketolase Antibody [NBP1-87441] - Staining of human skeletal muscle using Anti-TKT antibody NBP1-87441.



Immunohistochemistry-Paraffin: Transketolase Antibody [NBP1-87441] - Staining of human bone marrow shows high expression.



## Publications

Chen Y, Zhang T, Zeng S et al. Transketolase in human Muller cells is critical to resist light stress through the pentose phosphate and NRF2 pathways Redox Biology 2022-08-01 [PMID: 35779441] (WB, IF/IHC, Human)

Scaffa A, Yao H, Oulhen N Et al. Single-cell transcriptomics reveals lasting changes in the lung cellular landscape into adulthood after neonatal hyperoxic exposure Redox biology 2021-08-16 [PMID: 34417156] (IF/IHC, Human)



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP1-87441**

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NBP1-87441PEP	Transketolase Recombinant Protein Antigen
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

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### **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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