

Product Datasheet

CKMT2 Antibody - BSA Free

NBP2-13841

Unit Size: 0.1 ml

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

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Publications: 2

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Updated 12/2/2025 v.20.1

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NBP2-13841

CKMT2 Antibody - BSA Free

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

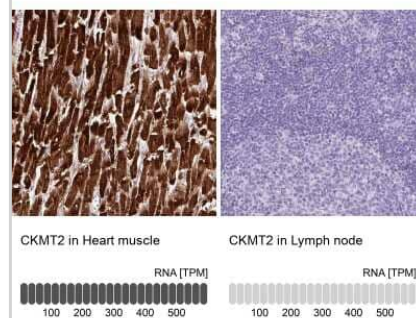
Product Description	
Description	Novus Biologicals Rabbit CKMT2 Antibody - BSA Free (NBP2-13841) is a polyclonal antibody validated for use in IHC and WB. Anti-CKMT2 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	1160
Gene Symbol	CKMT2
Species	Human
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (84%)
Immunogen	This antibody was developed against a recombinant protein corresponding to the amino acids: ASIFSKLLTGRNASLLFATMGTSVLTTGYLLNRQKVCAEVREQPRLFPPSADYP DL

Product Application Details	
Applications	Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Immunohistochemistry 1:200 - 1:500, Immunohistochemistry-Paraffin 1:200 - 1:500
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

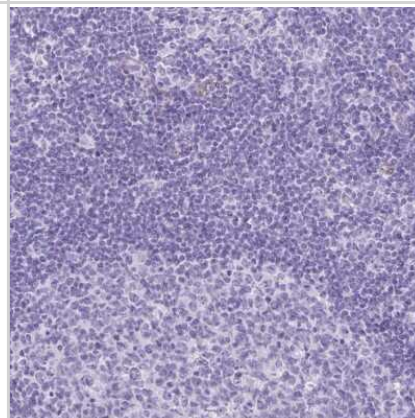


Images

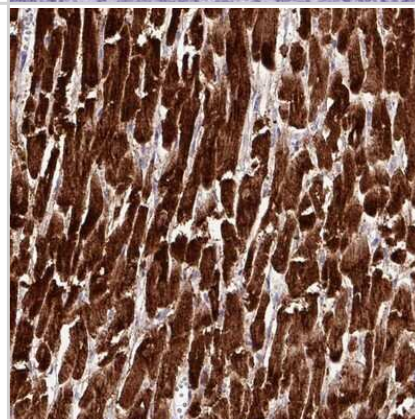
Immunohistochemistry-Paraffin: CKMT2 Antibody [NBP2-13841] - Staining in human heart muscle and lymph node tissues using anti-CKMT2 antibody. Corresponding CKMT2 RNA-seq data are presented for the same tissues.



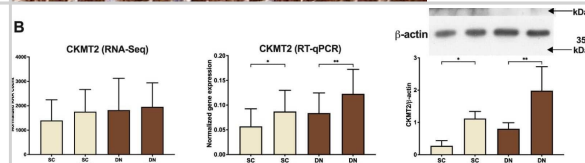
Immunohistochemistry-Paraffin: CKMT2 Antibody [NBP2-13841] - Staining of human lymph node shows low expression as expected.



Immunohistochemistry-Paraffin: CKMT2 Antibody [NBP2-13841] - Staining of human heart muscle shows strong cytoplasmic positivity in myocytes.



BMP7 treatment upregulated creatine futile cycle-mediated thermogenesis in SC and DN derived differentiated adipocytes. SC and DN preadipocytes were differentiated and treated as in Figure 1, Figure 2, Figure 3, Figure 4 and Figure 5. (A) Representative time lapse OCR curve after indicated treatments, followed by quantification of creatine cycle related (β -GPA inhibited) OCR (n = 5). (B) Quantification of gene expression of CKMT2 by RNA-sequencing (n = 9) and RT-qPCR (n = 5), followed by protein expression (n = 5). (C) Quantification of gene expression of CKB by RNA-sequencing (n = 9), followed by protein expression (n = 4). (D) Quantification of gene expression of TNAP by RNA-sequencing (n = 9). Data expressed as mean \pm SD. RT-qPCR was normalized to GAPDH, protein expression was normalized to β -actin. * $p < 0.05$, ** $p < 0.01$. Statistics: one-way ANOVA with Tukey's post-test. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/34832860>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Shaw A Thermogenic regulation of human abdominal and neck area derived adipocytes by mitophagy, irisin and BMP 7 Thesis 2022-01-01 (WB, Human)

Details:

Dilution used for WB 1:1000

Shaw A, TOth B, Arianti R Et al. BMP7 increases UCP1-dependent and independent thermogenesis with a unique gene expression program in human neck area derived adipocytes Pharmaceuticals 2021-09-28 [PMID: 34832860] (WB)





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Products Related to NBP2-13841

NBP2-13841PEP	CKMT2 Recombinant Protein Antigen
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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