

Product Datasheet

SHMT2 Antibody - BSA Free

NBP1-80754

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: 4

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NBP1-80754

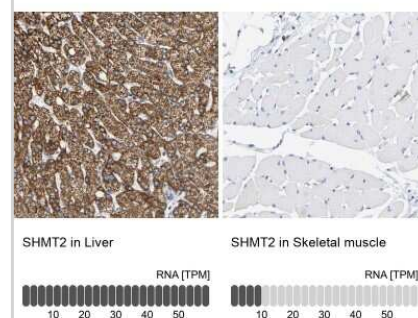
SHMT2 Antibody - BSA Free

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	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol
Product Description	
Description	Novus Biologicals Rabbit SHMT2 Antibody - BSA Free (NBP1-80754) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-SHMT2 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	6472
Gene Symbol	SHMT2
Species	Human, Mouse, Rat
Reactivity Notes	Human reactivity reported in scientific literature (PMID: 25855294).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: NTCPGDRSAITPGGLRLGAPALTSRQFREDDFRRVVDVIDEGVNIGLEVKSKTA KLQDFKSFLLKDSETSQRLANLRQRVEQFARAF
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200 - 1:500
Application Notes	IHC reported in scientific literature (PMID: 25855294). For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

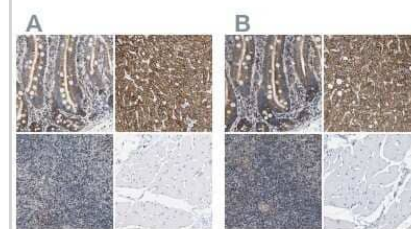


Images

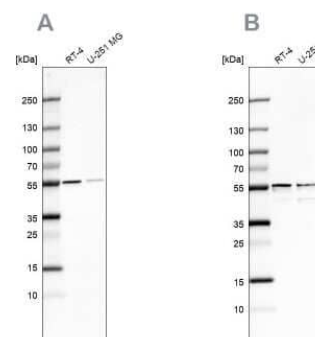
Immunohistochemistry-Paraffin: SHMT2 Antibody [NBP1-80754] - Staining in human liver and skeletal muscle tissues . Corresponding SHMT2 RNA-seq data are presented for the same tissues.



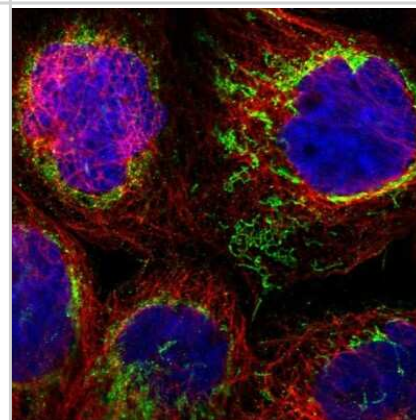
Immunohistochemistry-Paraffin: SHMT2 Antibody [NBP1-80754] - Staining of human duodenum, liver, lymph node and skeletal muscle using Anti-SHMT2 antibody NBP1-80754 (A) shows similar protein distribution across tissues to independent antibody NBP1-80755 (B).



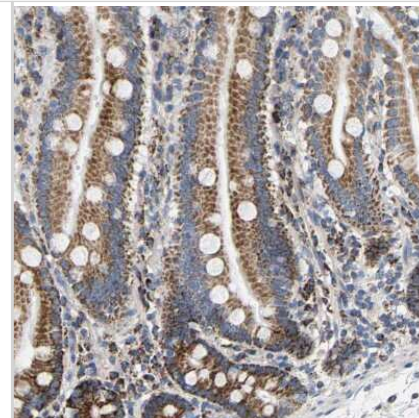
Western Blot: SHMT2 Antibody [NBP1-80754] - Analysis using Anti-SHMT2 antibody NBP1-80754 (A) shows similar pattern to independent antibody NBP1-80755 (B).



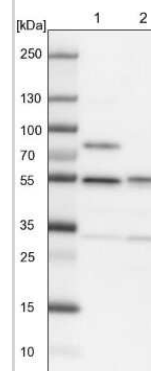
Immunocytochemistry/Immunofluorescence: SHMT2 Antibody [NBP1-80754] - Staining of human cell line A-431 shows localization to mitochondria. Antibody staining is shown in green.



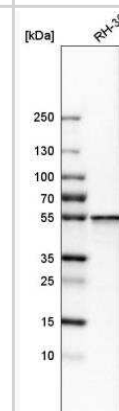
Immunohistochemistry-Paraffin: SHMT2 Antibody [NBP1-80754] - Staining of human duodenum shows moderate granular cytoplasmic positivity in glandular cells.



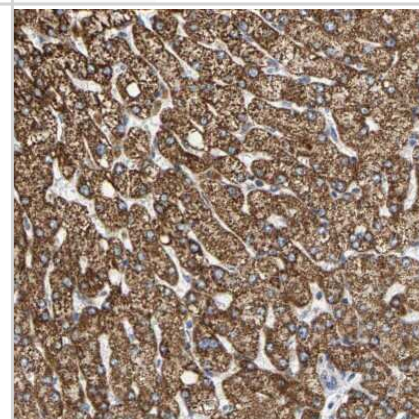
Western Blot: SHMT2 Antibody [NBP1-80754] - Lane 1: NIH-3T3 cell lysate (Mouse embryonic fibroblast cells). Lane 2: NBT-II cell lysate (Rat Wistar bladder tumor cells).



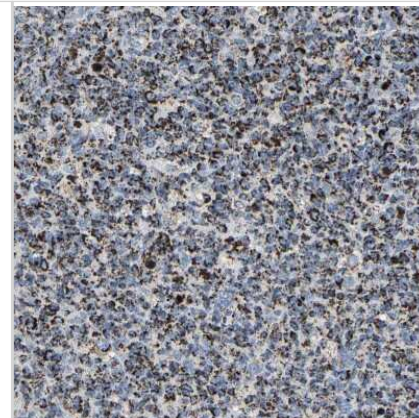
Western Blot: SHMT2 Antibody [NBP1-80754] - Analysis in human cell line RH-30.



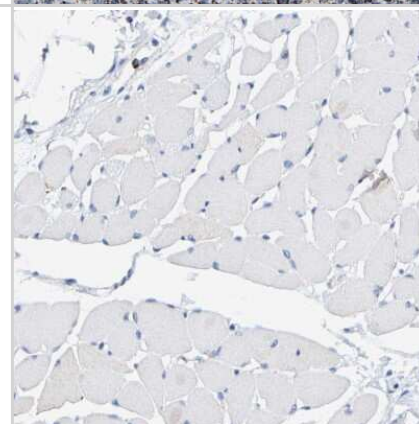
Immunohistochemistry-Paraffin: SHMT2 Antibody [NBP1-80754] - Staining of human liver shows moderate granular cytoplasmic positivity in hepatocytes.



Immunohistochemistry-Paraffin: SHMT2 Antibody [NBP1-80754] - Staining of human lymph node shows moderate granular cytoplasmic positivity in germinal center cells.



Immunohistochemistry-Paraffin: SHMT2 Antibody [NBP1-80754] - Staining of human skeletal muscle shows no positivity in myocytes as expected.



Publications

Rowe JH, Elia I, Shahid O et al. Formate supplementation enhances anti-tumor CD8+ T cell fitness and efficacy of PD-1 blockade Cancer discovery 2023-09-20 [PMID: 37728660]

Rintz E, Podlacha M, Cyske Z et al. Activities of (Poly)phenolic Antioxidants and Other Natural Autophagy Modulators in the Treatment of Sanfilippo Disease: Remarkable Efficacy of Resveratrol in Cellular and Animal Models Neurotherapeutics : the journal of the American Society for Experimental NeuroTherapeutics 2022-11-07 [PMID: 36344724] (Cytometric Bead Assay Standard, Human)

Zhang H, Zhang G, Zhang J et al. Transcription factor SP1 and oncoprotein PPP1R13L regulate nicotine-induced epithelial-mesenchymal transition in lung adenocarcinoma via a feedback loop Biochemical pharmacology 2022-11-11 [PMID: 36372331] (WB, Human)

Details:

Dilution used in WB 1:5000

Kim D, Fiske BP, Birsoy K et al. SHMT2 drives glioma cell survival in ischaemia but imposes a dependence on glycine clearance. Nature 2015-04-16 [PMID: 25855294] (IF/IHC, Human)



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Products Related to NBP1-80754

NBP1-80754PEP	SHMT2 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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