

Product Datasheet

Ornithine Carbamoyltransferase Antibody - BSA Free NBP1-87408

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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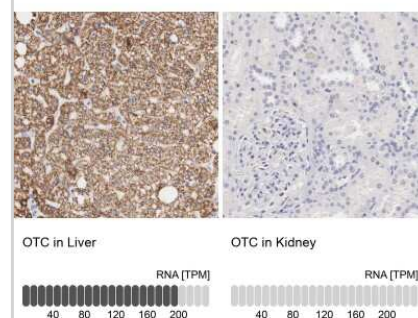
NBP1-87408**Ornithine Carbamoyltransferase Antibody - BSA Free**

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	
Host	Rabbit
Gene ID	5009
Gene Symbol	OTC
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID:33228018)
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: ILADYLTQLQEHYSSLKGLTSLWIGDGNNILHSIMMSAAKFGMHLQAATPKGYEP DASVTKLAEQYAKENGTKLLLTDNPLEAAHGGNVLITDTWISMGQEEEEKKKRL QAFQGYQVTMKTAKVAASDWT
Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Simple Western 1:20, Immunohistochemistry 1:2500 - 1:5000, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:2500 - 1:5000
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in Liver, separated by Size, antibody dilution of 1:20, apparent MW was 41 kDa. Separated by Size-Wes, Sally Sue/Peggy Sue.

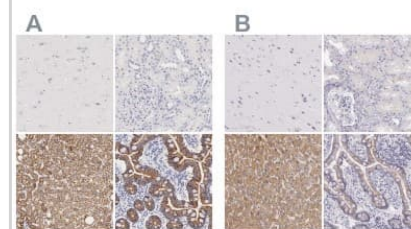


Images

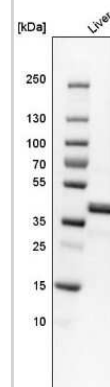
Immunohistochemistry-Paraffin: Ornithine Carbamoyltransferase Antibody [NBP1-87408] - Staining in human liver and kidney tissues . Corresponding OTC RNA-seq data are presented for the same tissues.



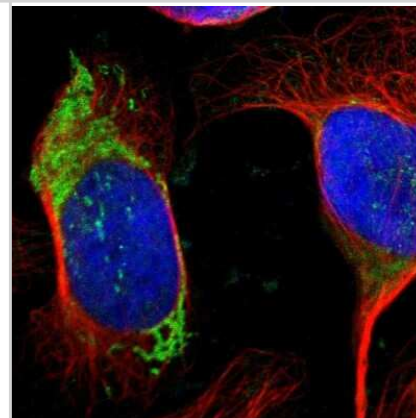
Immunohistochemistry-Paraffin: Ornithine Carbamoyltransferase Antibody [NBP1-87408] - Staining of human cerebral cortex, kidney, liver and small intestine using Anti-OTC antibody NBP1-87408 (A) shows similar protein distribution across tissues to independent antibody NBP1-88121 (B).



Western Blot: Ornithine Carbamoyltransferase Antibody [NBP1-87408] - Analysis in human liver tissue.



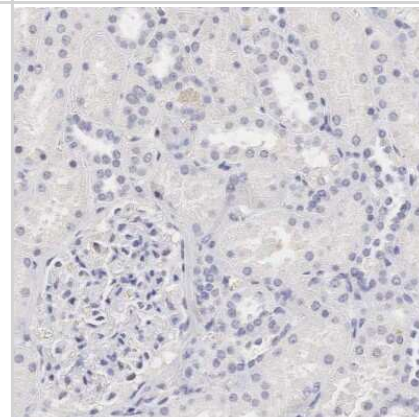
Immunocytochemistry/Immunofluorescence: Ornithine Carbamoyltransferase Antibody [NBP1-87408] - Staining of human cell line U-2 OS shows localization to mitochondria. Antibody staining is shown in green.



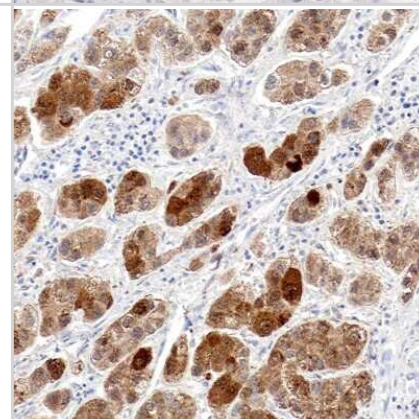
Immunohistochemistry-Paraffin: Ornithine Carbamoyltransferase Antibody [NBP1-87408] - Staining of human small intestine shows strong granular cytoplasmic positivity in glandular cells.



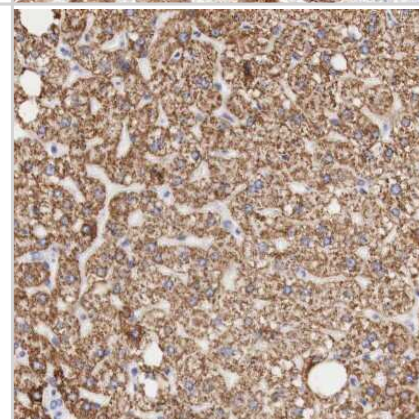
Immunohistochemistry-Paraffin: Ornithine Carbamoyltransferase Antibody [NBP1-87408] - Staining of human kidney shows no positivity as expected.



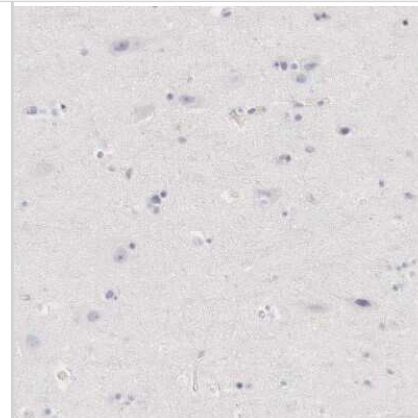
Immunohistochemistry-Paraffin: Ornithine Carbamoyltransferase Antibody [NBP1-87408] - Staining of human liver cancer shows moderate to strong cytoplasmic positivity in tumor cells.



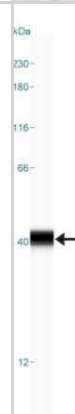
Immunohistochemistry-Paraffin: Ornithine Carbamoyltransferase Antibody [NBP1-87408] - Staining of human liver shows strong granular cytoplasmic positivity in hepatocytes.



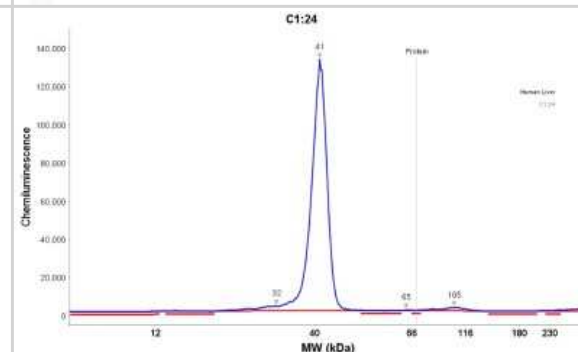
Immunohistochemistry-Paraffin: Ornithine Carbamoyltransferase Antibody [NBP1-87408] - Staining of human cerebral cortex shows no positivity in neurons as expected.



Simple Western: Ornithine Carbamoyltransferase Antibody [NBP1-87408] - Simple Western lane view shows a specific band for OTC in 0.2 mg/ml of Liver lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Simple Western: Ornithine Carbamoyltransferase Antibody [NBP1-87408] - Electropherogram image(s) of corresponding Simple Western lane view. Ornithine Carbamoyltransferase antibody was used at 1:20 dilution on Liver lysate(s).



Publications

Chin RM, Rakhit R, Ditsworth D et al. Pharmacological PINK1 activation ameliorates Pathology in Parkinson's Disease models bioRxiv 2023-02-15 [PMID: 36824886] (Western Blot, Immunocytochemistry/ Immunofluorescence, Human)

Giessel A, Dousis A, Ravichandran K et al. Therapeutic enzyme engineering using a generative neural network Scientific reports 2022-01-27 [PMID: 35087131] (WB)

Balestra D, Ferrarese M, Lombardi S et al. An Exon-Specific Small Nuclear U1 RNA (ExSpeU1) Improves Hepatic OTC Expression in a Splicing-Defective spf/ash Mouse Model of Ornithine Transcarbamylase Deficiency Int J Mol Sci 2020-11-19 [PMID: 33228018] (IF/IHC, Mouse)

Details:

Spflash model mouse liver samples injected with AAV8 plasmids carrying U1snRNA underwent immunohistochemical analysis.

Wu CC, Hsu CW, Chen CD et al. Candidate Serological Biomarkers for Cancer Identified from the Secretomes of 23 Cancer Cell Lines and the Human Protein Atlas. Mol Cell Proteomics 2010-06-01 [PMID: 20124221]

Chaerkady R, Harsha HC, Nalli A et al. A Quantitative Proteomic Approach for Identification of Potential Biomarkers in Hepatocellular Carcinoma. J Proteome Res 2008-10-01 [PMID: 18715028]





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Products Related to NBP1-87408

NBP1-87408PEP	Ornithine Carbamoyltransferase 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

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