

Product Datasheet

MAT1A Antibody - BSA Free NBP1-55120

Unit Size: 100 ul

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

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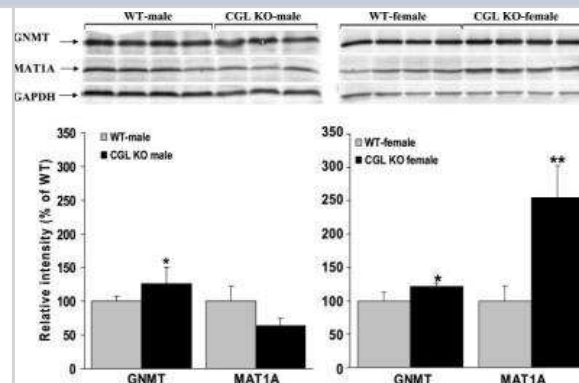
NBP1-55120

MAT1A Antibody - BSA Free

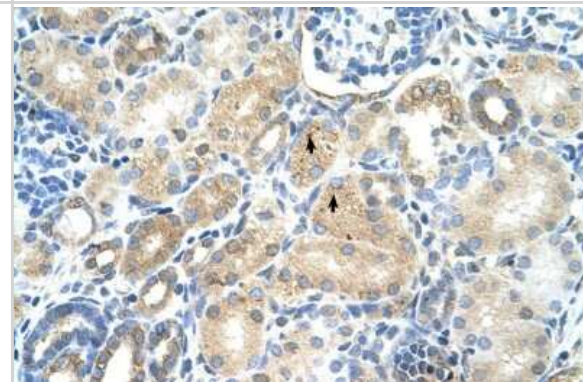
Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	PBS, 2% Sucrose
Target Molecular Weight	43 kDa
Product Description	
Description	The addition of 50% glycerol is optional for those storing this antibody at -20C and not aliquoting smaller units. However, please note that glycerol may interrupt some downstream antibody applications and should be added with caution.
Host	Rabbit
Gene ID	4143
Gene Symbol	MAT1A
Species	Human, Mouse, Bacteria
Reactivity Notes	Bacteria reactivity reported in scientific literature (PMID: 31363118).
Immunogen	Synthetic peptides corresponding to MAT1A(methionine adenosyltransferase I, alpha) The peptide sequence was selected from the N terminal of MAT1A (NP_000420). Peptide sequence TSESVGEGHPDKICDQISDAVLDAHLKQDPNAKVACETVCKTGMVLLCGE. The peptide sequence for this immunogen was taken from within the described region.
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1.0 ug/ml, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10-1:500, Immunohistochemistry-Paraffin 1.25 ug/ml
Application Notes	Immunocytochemistry/Immunofluorescence was reported in scientific literature.

Images

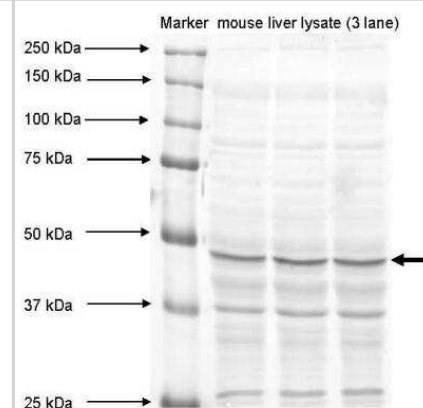
Western Blot: MAT1A Antibody [NBP1-55120] - MAT1A protein levels are significantly increased in female Cgl null mice with severely elevated plasma tHcy. Western blotting analysis of hepatic GNMT and MAT1A protein expression levels in male and female WT and Cgl null mice. Values shown represent the mean \pm s.d., * $P < 0.05$, ** $P < 0.01$. Image collected and cropped by CiteAb from the following publication (<https://bio.biologists.org/cgi/doi/10.1242/bio.013433>) licensed under a CC-BY license.



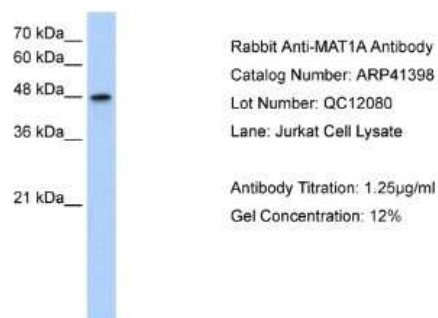
Immunohistochemistry-Paraffin: MAT1A Antibody [NBP1-55120] - Human kidney Tissue, antibody concentration 4-8ug/ml. Cells with positive label: renal corpuscle cells (indicated with arrows) 400X magnification.



Western Blot: MAT1A Antibody [NBP1-55120] - WB analysis of MAT1A in mouse liver lysate. Image courtesy of product review submitted by Hua Jiang.



Western Blot: MAT1A Antibody [NBP1-55120] - Antibody Titration: 1. 25 ug/ml Positive control: Jurkat cell lysate.



Publications

Maclea KN, Jiang H, Phinney WN, et al. Derangement of hepatic polyamine, folate, and methionine cycle metabolism in cystathionine beta-synthase-deficient homocystinuria in the presence and absence of treatment: Possible implications for pathogenesis *Molecular genetics and metabolism* 2021-01-11 [PMID: 33483253]

Kang Y, Kim H, Goo E et al. Unraveling the role of quorum sensing-dependent metabolic homeostasis of the activated methyl cycle in a cooperative population of *Burkholderia glumae* *Sci Rep* 2019-07-30 [PMID: 31363118] (WB, Bacteria)

Bassila C. L'interactome de la methionine synthase. Thesis. 2016-01-01 (ICC/IF, Human)

Jiang H, Hurt KJ, Breen K et al. Sex-specific dysregulation of cysteine oxidation and the methionine and folate cycles in female cystathionine gamma-lyase null mice: a serendipitous model of the methylfolate trap. *Biol Open* 2015-08-14 [PMID: 26276101] (WB, Mouse)

Yang H, Cho ME, Li TW et al. MicroRNAs regulate methionine adenosyltransferase 1A expression in hepatocellular carcinoma *J Clin Invest* 2013-01-02 [PMID: 23241961] (ICC/IF, WB, IF/IHC, Human, Mouse)





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Products Related to NBP1-55120

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP1-40408	Recombinant Human MAT1A His Protein

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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