Product Datasheet

MAT1/2A Antibody - BSA Free
NB110-94162

Unit Size: 0.1 ml

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

www.novusbio.com technical@novusbio.com

Reviews: 1 Publications: 2

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
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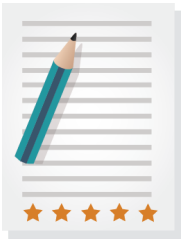
Updated 4/4/2022 v.20.1



NB110-94162

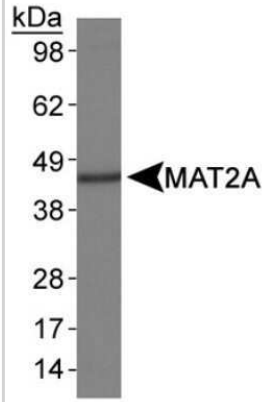
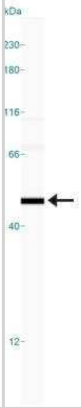
MAT1/2A Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol
Target Molecular Weight	43 kDa

Product Description	
Host	Rabbit
Gene ID	4144
Gene Symbol	MAT2A
Species	Human, Rat, Bovine, Primate, Zebrafish, Mouse (Negative)
Reactivity Notes	Human, rat, orangutan, bovine, Zebrafish and monkey. Does not react with mouse.
Immunogen	Synthetic peptide made to an internal portion of the human MAT2A protein (within residues 100-200). [Swiss-Prot# P31153]

Product Application Details	
Applications	Western Blot, Simple Western
Recommended Dilutions	Western Blot 2 ug/ml, Simple Western 1:10
Application Notes	This MAT1/2A antibody is useful for Western blot, where a band is seen at approx. 43 kDa. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

Western Blot: MAT1/2A Antibody [NB110-94162] - Detection of MAT2A in HepG2 whole cell lysates using NB110-94162.	
Simple Western: MAT1/2A Antibody [NB110-94162] - Simple Western lane view shows a specific band for MAT1/2 A in 0.5 mg/ml of HepG2 lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.	

Publications

Hung CY, Zhu C, Kittur FS et al. A plant-based mutant huntingtin model-driven discovery of impaired expression of GTPCH and DHFR Cellular and molecular life sciences : CMLS 2022-10-17 [PMID: 36251090] (WB, Mouse)

Navik U, Sheth VG, Kabeer SW, Tikoo K Dietary Supplementation of Methyl Donor L-Methionine Alters Epigenetic Modification in Type 2 Diabetes Mol Nutr Food Res 2019-09-18 [PMID: 31532875]

Procedures

Western Blot protocol for MAT1/2A Antibody (NB110-94162)
MAT1/2A Antibody: https://www.novusbio.com/products/mat1-2a-antibody_nb110-94162
Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH2O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% NFDM + 1% BSA in TBS + Tween, 1 hour at RT.
6. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-MAT1/2A primary antibody (NB 110-94162) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce ECL).

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.

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
novus@novusbio.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: technical@novusbio.com
Orders: orders@novusbio.com
General: novus@novusbio.com

Products Related to NB110-94162

NBL1-12910	MAT2A Overexpression Lysate
NB110-94162PEP	MAT1/2A Antibody Blocking Peptide
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7156	Goat anti-Rabbit IgG (H+L) Secondary Antibody
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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