

Product Datasheet

Monoamine Oxidase B Antibody - BSA Free NBP1-87493

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: 5

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NBP1-87493

Monoamine Oxidase B Antibody - BSA Free

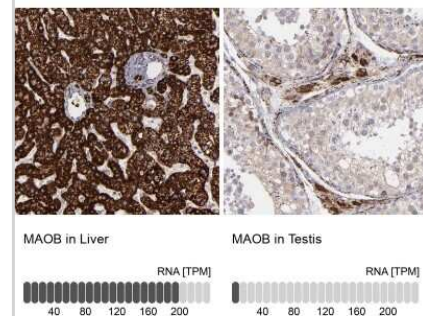
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium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

Product Description	
Description	Novus Biologicals Rabbit Monoamine Oxidase B Antibody - BSA Free (NBP1-87493) is a polyclonal antibody validated for use in IHC and WB. Anti-Monoamine Oxidase B Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	4129
Gene Symbol	MAOB
Species	Human, Mouse, Rat
Marker	Mitochondrial Outer Membrane Marker
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: WRTMDDMGREIPSDAPWKAPLAEEDWNMTMKELLDKLCWTESAKQLATLFV NLCVTAETHEVSALWFLWYVKQCGGTTTRIISTTNGGQERKFVGGSGQVSERIM DLLGDRVKLERPVIYIDQTRENVLVETLNHEMYEAKYVISAIPPTLGAPHR

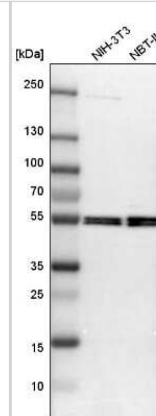
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:200 - 1:500, Immunohistochemistry-Paraffin 1:200 - 1:500
Application Notes	IHC-Paraffin, HIER pH 6 retrieval is recommended.

Images

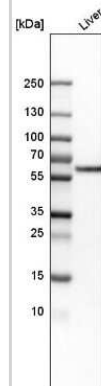
Immunohistochemistry-Paraffin: Monoamine Oxidase B Antibody [NBP1-87493] - Staining in human liver and testis tissues . Corresponding MAOB RNA-seq data are presented for the same tissues.



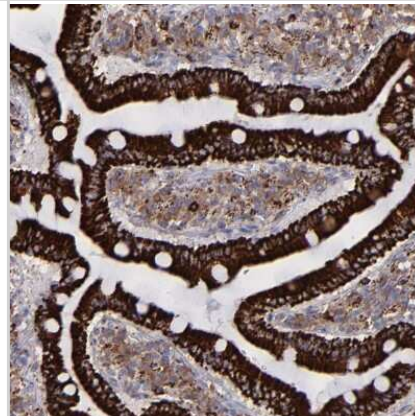
Western Blot: Monoamine Oxidase B Antibody [NBP1-87493] - Analysis in mouse cell line NIH-3T3 and rat cell line NBT-II.



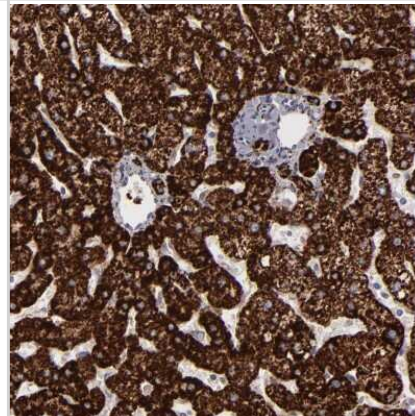
Western Blot: Monoamine Oxidase B Antibody [NBP1-87493] - Analysis in human liver tissue.



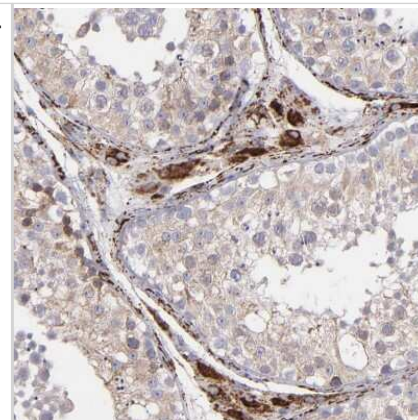
Immunohistochemistry-Paraffin: Monoamine Oxidase B Antibody [NBP1-87493] - Staining of human duodenum shows strong granular cytoplasmic positivity in glandular cells.



Immunohistochemistry-Paraffin: Monoamine Oxidase B Antibody [NBP1-87493] - Staining of human liver shows moderate to strong granular cytoplasmic positivity in hepatocytes.



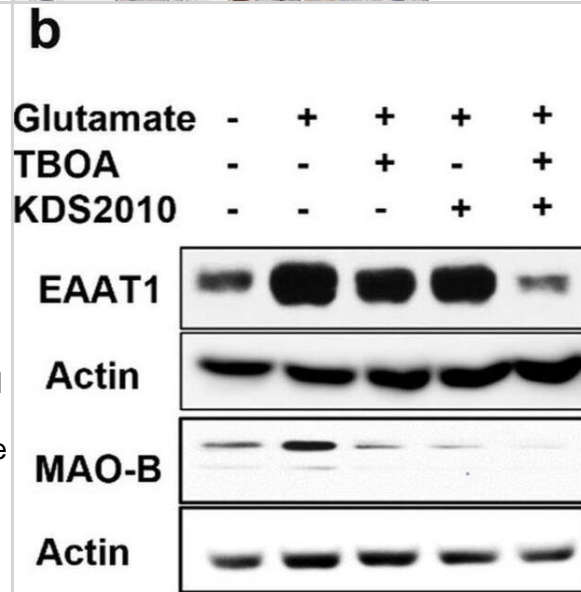
Immunohistochemistry-Paraffin: Monoamine Oxidase B Antibody [NBP1-87493] - Staining of human testis shows moderate to strong granular cytoplasmic positivity in Leydig cells.



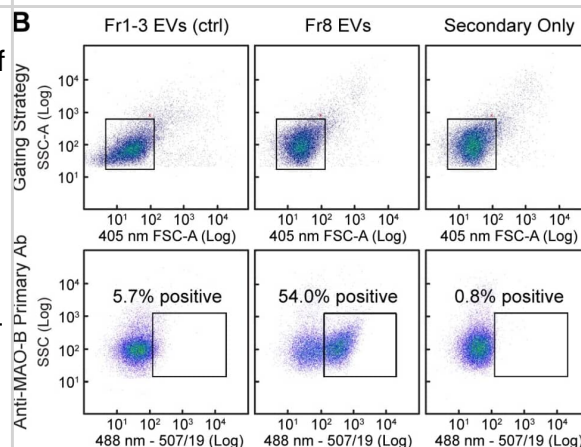
Glutamate-driven astrocytic MAO-B leading to reactive astrogliosis and astrocytic scar formation. a Schematic representation of glutamate-driven astrocytic MAO-B inducing reactive astrogliosis and astrocytic scar formation. b-d Western blot analysis for EAAT1 and MAO-B expression in astrocyte monocultures upon glutamate treatment. Glutamate treatment increased MAO-B expression in astrocytes.

Blockage of glutamate transport activity by using glutamate transporter inhibitor (TBOA) decreased MAO-B expression. e, f Reactivity of astrocyte monocultures upon glutamate treatment assessed by immunostaining with GFAP. Inhibiting glutamate transport (TBOA) or MAO-B (KDS2010) decreased GFAP expression. g ELISA for CSPGs deposited from reactive astrocytes. h, i Immunofluorescence images and quantification of GFAP intensity in the mouse tissues. j, k

Immunofluorescence images and quantification of CSPGs intensity in the mouse tissues. Quantitative data were presented as means \pm SD ($n = 3$, unless otherwise noted). *, $p < 0.05$; **, $p < 0.01$; ***, $p < 0.001$; ****, $p < 0.0001$. p values were calculated by two-tailed unpaired Student's t -test for comparisons between two groups, and by one-way ANOVA for multiple comparisons. Scale bars represent 100 μ m Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/37468961>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



MAO-B-positive mitovesicles are more numerous in the brain than MAO-A-positive mitovesicles. (A, B) Representative flow cytometry analyses of Fr8 brain EVs (mitovesicle-enriched, second columns) immunolabeled with antibodies against MAO-A (A) and MAO-B (B). The left columns show the same analyses performed on a 1:1:1 v/v mixture of Fr1, Fr2, and Fr3 EVs (microvesicle-enriched) isolated from the same brains (negative control). The right columns show mitovesicles incubated with the secondary antibody only. The gating strategy is shown for all conditions (first rows). Both the y - and the x -axis are in a log₁₀ scale. 20,000 EVs were acquired for each experiment. FSC-A: forward scatter-area. SSC-A: side scatter-area. Ab: antibody. (C) Percentage of mitovesicles positive for either MAO-A or MAO-B. $n = 3$ mice per group. The percentage of positive EVs was determined on the basis of the secondary antibody control gate of each sample (set to 0.8% maximum). Bars: mean \pm SEM. Statistical test used: two-tailed, unpaired Student's t -test. MAO-A vs. MAO-B, $P = 0.0004$. *** $P < 0.001$ Image collected and cropped by CiteAb from the following open publication (<https://molecularneurodegeneration.biomedcentral.com/articles/10.1186/s13024-024-00721-z>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

D'Acunzo P, Argyrousi EK, Ungania JM et al. Mitovesicles secreted into the extracellular space of brains with mitochondrial dysfunction impair synaptic plasticity *Mol Neurodegener* 2024-04-14 [PMID: 38616258]

Kawamura Y, Oka K, Semba T et al. Cellular senescence induction leads to progressive cell death via the INK4a-RB pathway in naked mole-rats *The EMBO journal* 2023-07-11 [PMID: 37431790]

Diep YN, Park HJ, Kwon JH et al. Astrocytic scar restricting glioblastoma via glutamate-MAO-B activity in glioblastoma-microglia assembloid *Biomaterials research* 2023-07-19 [PMID: 37468961] (WB, Human)

Keys HR, Knouse KA Genome-scale CRISPR screening in a single mouse liver *Cell genomics* 2022-12-14 [PMID: 36643909] (IHC, Mouse)

Jo S, Yarishkin O, Hwang YJ et al. GABA from reactive astrocytes impairs memory in mouse models of Alzheimers disease. *Nat Med* 2014-08-01 [PMID: 24973918]





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Products Related to NBP1-87493

NBP1-87493PEP	Monoamine Oxidase B Recombinant Protein Antigen
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
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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