

# Product Datasheet

## DARS Antibody - BSA Free NBP1-85937

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: 3

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**NBP1-85937**

DARS Antibody - BSA Free

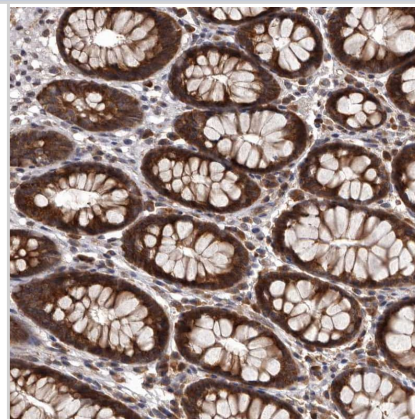
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium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

Product Description	
Description	Novus Biologicals Rabbit DARS Antibody - BSA Free (NBP1-85937) is a polyclonal antibody validated for use in IHC and WB. Anti-DARS Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	1615
Gene Symbol	DARS1
Species	Human
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: MPSASASRKSQEKPREIMDAAEDYAKERYGISSMIQSQEKPDRVLRVVRDLTIQ KADEVVWRARVHTSRAKGGKQCFLVLRQQQFNVQALVAVGDHASKQMVKFA ANINKESIVDVEGVVRKVNQKIGSCTQQDV

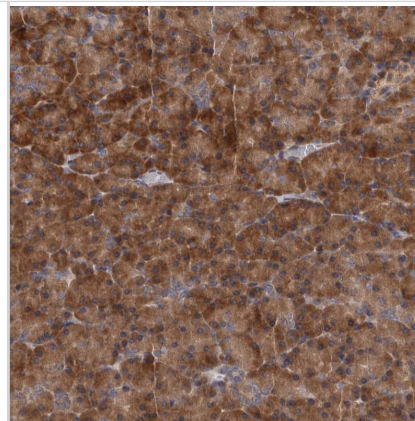
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Knockdown Validated
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:20 - 1:50, Immunohistochemistry-Paraffin 1:20 - 1:50, Knockdown Validated
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended.

**Images**

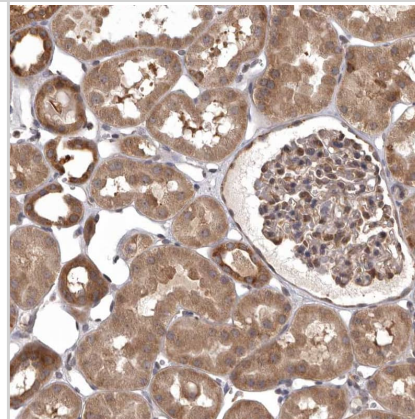
Staining of human gastrointestinal shows strong cytoplasmic positivity in glandular cells.



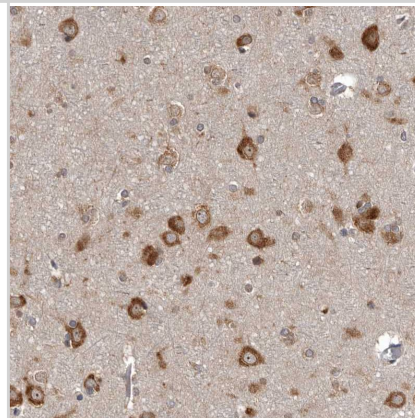
Staining of human pancreas shows strong cytoplasmic positivity in glandular cells.



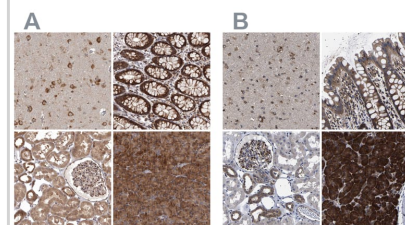
Staining of human kidney shows strong cytoplasmic positivity in cells in tubules and cells in glomeruli.



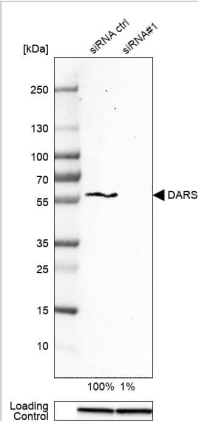
Staining of human cerebral cortex shows strong cytoplasmic positivity in neuronal cells.



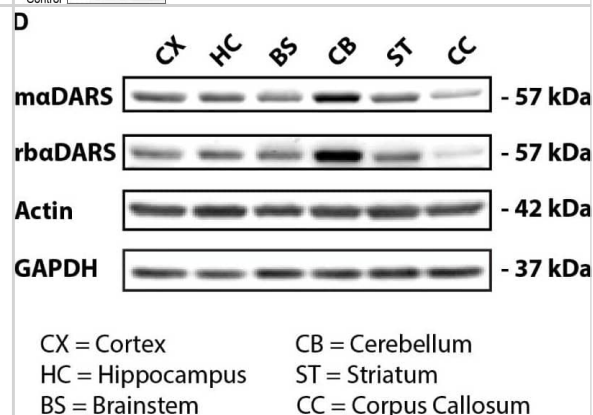
Staining of human cerebral cortex, gastrointestinal, kidney and pancreas using Anti-DARS antibody NBP1-85937 (A) shows similar protein distribution across tissues to independent antibody NBP1-86027 (B).



Analysis in A-431 cells transfected with control siRNA, target specific siRNA probe #1, using Anti-DARS antibody. Remaining relative intensity is presented. Loading control: Anti-GAPDH.



DARS expression in the adult human brain. (A,B) Levels of DARS(A) and DARS2(B) mRNA across different brain regions [CX, motor cortex; HC, hippocampus; BS, brainstem (pons); CB, cerebellum; ST, striatum; CC, corpus callosum] determined by qRT-PCR. DARS and DARS2 mRNA were normalized to the housekeeping gene  $\beta$ -Actin (n = 5). (C) Western-blot detection of DARS in lysates from HEK 293 cells ectopically expressing human DARS including an N-terminal FLAG-HA-tag or a control plasmid. DARS protein was detected with a monoclonal mouse antibody from SantaCruz (maDARS), or a polyclonal rabbit antibody from Novus Biologicals (rbaDARS), or an HA antibody.  $\beta$ -Actin served as internal standard. (D) Representative Western-blot depicting the expression of DARS,  $\beta$ -Actin, and GAPDH across different brain regions. (E) Levels of DARS protein (detected with maDARS) normalized to  $\beta$ -Actin (n = 5). Data represent mean  $\pm$  SEM ( $\square$  p < 0.05,  $\square\square$  p < 0.01,  $\square\square\square$  p < 0.001; one-way ANOVA). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/29615866>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Klugmann M, Suchowerska A, Housley G, Fröhlich D Histological and biochemical methods to assess aminoacyl-tRNA synthetase expression in human post-mortem brain tissue Rare Disease and Orphan Drugs Journal 2023-04-20 (Western Blot, Human)

Frohlich D, Suchowerska AK, Voss C et al. Expression Pattern of the Aspartyl-tRNA Synthetase DARS in the Human Brain. Front Mol Neurosci 2018-03-20 [PMID: 29615866] (WB, Human)

Frohlich D, Suchowerska AK, Spencer ZH et al. In vivo characterization of the aspartyl-tRNA synthetase DARS: Homing in on the leukodystrophy HBSL. Neurobiol. Dis. 2017-01-01 [PMID: 27816769] (Mouse)



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### **Products Related to NBP1-85937**

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NBP1-85937PEP	DARS 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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### **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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