# **Product Datasheet**

# C12orf73 Antibody - BSA Free NBP1-90536

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: 2** 

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#### NBP1-90536

C12orf73 Antibody - BSA Free

C12orf73 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	728568
Gene Symbol	C12ORF73
Species	Human, Zebrafish
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (80%). Zebrafish reactivity reported in (PMID: 32161263).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: AEVVHRYYRPDLTIPEIPPKRGELKTELLGLKERKHKPQVSQQEEL
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Knockdown Validated, Knockout Validated
Recommended Dilutions	Western Blot Reported in scientific literature (PMID:32161263), Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200-1:500,

Knockout Validated, Knockdown Validated

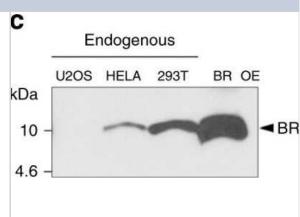
Permeabilization: Use PFA/Triton X-100.

For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation

## **Images**

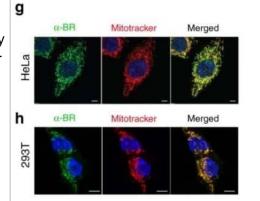
**Application Notes** 

Western Blot: C12orf73 Antibody [NBP1-90536] - BRAWNIN (C12orf73; BR) is a conserved SEP at the inner mitochondrial membrane. Endogenous BR is detected in HeLa and HEK293T with an alpha-BR antibody. OE = overexpression. Image collected and cropped by CiteAb from the following publication (https://www.nature.com/articles/s41467-020-14999-2), licensed under a CC-BY license.

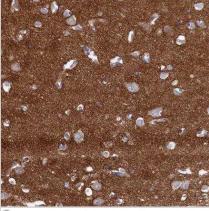




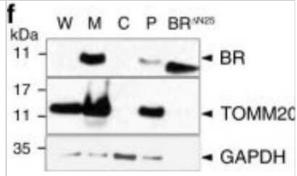
Immunocytochemistry/Immunofluorescence: C12orf73 Antibody [NBP1-90536] - Endogenous BR (C12orf73) detected by alpha-BR in HeLa costained with mitotracker. Scale = 5 uM. h Endogenous BR detected by alpha-BR in HEK293T costained with mitotracker. Scale = 5 uM. i alpha-BR and alpha-citrate synthase (CS) immunofluorescence in mouse skeletal muscle, longitudinal section. Scale = 20 uM. Image collected and cropped by CiteAb from the following publication (https://www.nature.com/articles/s41467-020-14999-2/figures/2), licensed under a CC-BY license.



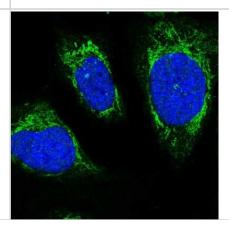
Immunohistochemistry-Paraffin: C12orf73 Antibody [NBP1-90536] - Staining of human cerebral cortex shows strong positivity in neuropil.



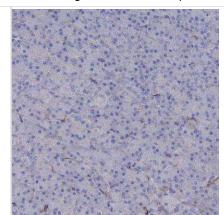
Western Blot: C12orf73 Antibody [NBP1-90536] - BRAWNIN (C12orf73; BR) is a conserved SEP at the inner mitochondrial membrane. Western blot of indicated proteins from subcellular fractions of HEK293T. W = whole cell, M = mitochondria enriched fraction, C = cytosol, P = nuclear fraction and debris, including un-extracted mitochondria; BRdeltaN25 = synthetic BR peptide lacking the N-terminal 25 a.a. Image collected and cropped by CiteAb from the following publication (https://www.nature.com/articles/s41467-020-14999-2), licensed under a CC-BY license.



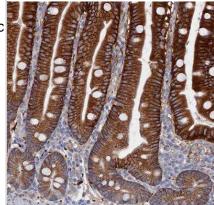
Immunocytochemistry/Immunofluorescence: C12orf73 Antibody [NBP1-90536] - Staining of human cell line U-2 OS shows localization to mitochondria & centrosome. Antibody staining is shown in green.



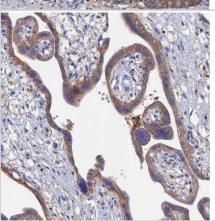
Immunohistochemistry-Paraffin: C12orf73 Antibody [NBP1-90536] - Staining of human pancreas shows no positivity in exocrine glandular cells as expected.



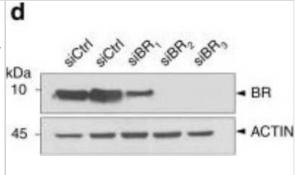
Immunohistochemistry-Paraffin: C12orf73 Antibody [NBP1-90536] - Staining of human gastrointestinal shows moderate to strong cytoplasmic positivity in glandular cells.



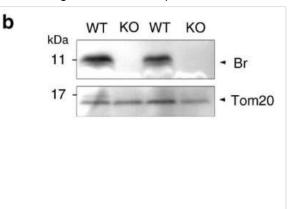
Immunohistochemistry-Paraffin: C12orf73 Antibody [NBP1-90536] - Staining of human placenta shows moderate cytoplasmic positivity in trophoblastic cells.



Western Blot: C12orf73 Antibody [NBP1-90536] - BRAWNIN (C12orf73; BR) is a conserved SEP at the inner mitochondrial membrane. Western blot of HEK293T lysates transfected with control or BR-targeting siRNAs. Image collected and cropped by CiteAb from the following publication (https://www.nature.com/articles/s41467-020-14999-2), licensed under a CC-BY license.



Western Blot: C12orf73 Antibody [NBP1-90536] - Western blot analysis of purified mitochondria from adult WT and KO (homozygous brdelta/brdelta) skeletal muscle using zebrafish-specific alpha-Br (C12orf73). Image collected and cropped by CiteAb from the following publication (https://www.nature.com/articles/s41467-020-14999-2/figures/4), licensed under a CC-BY license.



#### **Publications**

Liang C, Zhang S, Robinson D, Ploeg MV et Al. Mitochondrial microproteins link metabolic cues to respiratory chain biogenesis Cell Rep 2022-08-17 [PMID: 35977508]

Zhang S, Reljic B, Liang C et Al. Mitochondrial peptide BRAWNIN is essential for vertebrate respiratory complex III assembly Nat Commun 2020-03-11 [PMID: 32161263] (ICC/IF, WB, Zebrafish)





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# **Products Related to NBP1-90536**

NBP1-90536PEP C12orf73 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

#### 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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