

Product Datasheet

WARS2 Antibody - BSA Free

NBP1-54653

Unit Size: 100 ul

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

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NBP1-54653

WARS2 Antibody - BSA Free

Product Information

Unit Size	100 ul
Concentration	0.5 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	Affinity purified
Buffer	PBS, 2% Sucrose
Target Molecular Weight	24 kDa

Product Description

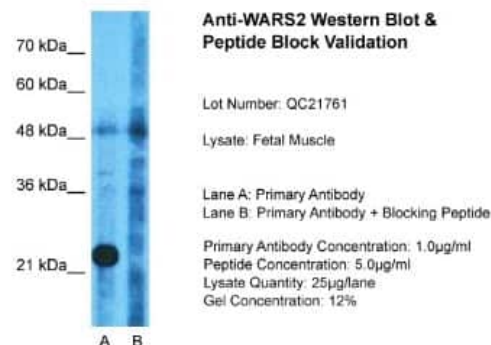
Description	The addition of 50% glycerol is optional for those storing this antibody at -20C and not aliquoting smaller units. However, please note that glycerol may interrupt some downstream antibody applications and should be added with caution.
Host	Rabbit
Gene ID	10352
Gene Symbol	WARS2
Species	Human
Immunogen	Synthetic peptides corresponding to WARS2(tryptophanyl tRNA synthetase 2, mitochondrial) The peptide sequence was selected from the middle region of WARS2. Peptide sequence TTKQKHDGTVGLLTYPVLQAADILLYKSTHVPVGEDQVQHMELVQDLAQG. The peptide sequence for this immunogen was taken from within the described region.

Product Application Details

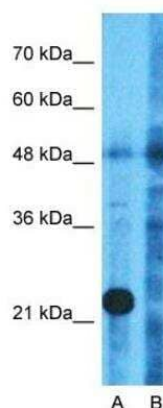
Applications	Western Blot
Recommended Dilutions	Western Blot 1.0 ug/ml

Images

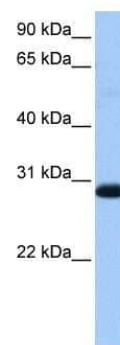
Western Blot: WARS2 Antibody [NBP1-54653] - Sample Tissue: Human Fetal Muscle, Lane A: Primary Antibody, Lane B: Primary Antibody + Blocking Peptide, Primary Antibody Concentration: 1ug/ml, Peptide Concentration: 5ug/ml, Lysate Quantity: 25ug/lane/lane, Gel Concentration: 0.12



Western Blot: WARS2 Antibody [NBP1-54653] - Human Fetal Muscle.
Lane A: Primary Antibody. Lane B: Primary Antibody and Blocking
Peptide.



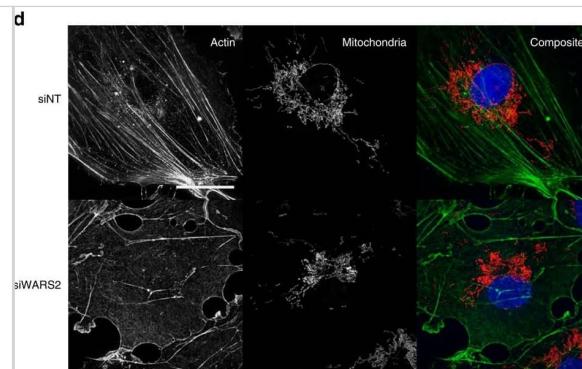
Western Blot: WARS2 Antibody [NBP1-54653] - Human Muscle lysate,
concentration 0.2-1 ug/ml.



Immunocytochemistry/ Immunofluorescence: WARS2 Antibody [NBP1-54653] - WARS2 regulates endothelial cell morphology & angiogenic potential. (a) Bright field micrographs of endothelial cells (ECs) following transfection with either control siRNA (siNT) or siRNA against WARS2 (siWARS2). Scale bar=200 μ m. (b) Confocal microscopy of ECs transfected with siNT or siWARS2 (red, mitochondria; green, actin; blue, nucleus; scale bar =30 μ m). (c) EC number in EC cultures transfected with siNT or siWARS2 (n=3 per condition, t-test). (d) Super-resolution microscopy of ECs transfected with siNT or siWARS2 & stained for actin (left), mitochondria (middle) & composite images with nuclear stain (right). Scale bar =25 μ m. (e-j) Effects of WARS2 in an in vitro model of EC angiogenesis. (e-g) WARS2 loss of function; (h-j) WARS2 gain-of-function. Total tubes (e, h), total tube length (in pixel) (f, i) & total branching points (g, j). n=8, t-test. **, P<0.01; ***, P<0.001. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/27389904>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Immunocytochemistry/ Immunofluorescence: WARS2 Antibody [NBP1-54653] - WARS2 regulates endothelial cell morphology & angiogenic potential. (a) Bright field micrographs of endothelial cells (ECs) following transfection with either control siRNA (siNT) or siRNA against WARS2 (siWARS2). Scale bar=200 μ m. (b) Confocal microscopy of ECs transfected with siNT or siWARS2 (red, mitochondria; green, actin; blue, nucleus; scale bar =30 μ m). (c) EC number in EC cultures transfected with siNT or siWARS2 (n=3 per condition, t-test). (d) Super-resolution microscopy of ECs transfected with siNT or siWARS2 & stained for actin (left), mitochondria (middle) & composite images with nuclear stain (right). Scale bar =25 μ m. (e–j) Effects of WARS2 in an in vitro model of EC angiogenesis. (e–g) WARS2 loss of function; (h–j) WARS2 gain-of-function. Total tubes (e, h), total tube length (in pixel) (f, i) & total branching points (g, j). n=8, t-test. **, $P<0.01$; ***, $P<0.001$. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/27389904>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Wang M, Sips P, Khin E et al. Wars2 is a determinant of angiogenesis Nat Commun 2016-07-08 [PMID: 27389904] (WB)



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Products Related to NBP1-54653

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00010352-P01-10ug	Recombinant Human WARS2 GST (N-Term) 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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