

Product Datasheet

SDHA Antibody NBP1-71688

Unit Size: 0.05 ml

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

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NBP1-71688**SDHA Antibody**

Product Information	
Unit Size	0.05 ml
Concentration	0.2 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS, 0.1% BSA, and 50% Glycerol

Product Description	
Host	Rabbit
Gene ID	6389
Gene Symbol	SDHA
Species	Human, Mouse, Rat, Porcine
Reactivity Notes	Use in Rat reported in scientific literature (PMID:33293540) Human and mouse. Porcine reactivity reported by a customer review. Immunogen has 94% identity to rat and 93% identity to porcine.
Immunogen	A genomic peptide made to a C-terminal region of the human SDHA protein (within residues 500-664). [Swiss-Prot P31040]
Notes	Manufactured by Genomic Antibody Technology™. GAT FAQs

Product Application Details	
Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:1000, Simple Western 1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:50-1:100
Application Notes	Use in IHC reported in scientific literature (PMID:33293540). This SDHA antibody is useful for ICC/IF and Western blot, where a band is seen ~72 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.

Publications

De Miranda BR, Rocha EM, Castro SL, Greenamyre JT Protection from alpha-Synuclein induced dopaminergic neurodegeneration by overexpression of the mitochondrial import receptor TOM20 NPJ Parkinson's disease 2020-12-08 [PMID: 33293540] (IF/IHC, Rat)

Hunter CA, Kartal F, Koc ZC et al. Mitochondrial oxidative phosphorylation is impaired in TALLYHO mice, a new obesity and type 2 diabetes animal model Int. J. Biochem. Cell Biol. 2019-09-19 [PMID: 31542429] (WB, Mouse)

Baldanta S, Fernandez-Escobar M, Acin-Perez R, Albert M et al. ISG15 governs mitochondrial function in macrophages following vaccinia virus infection PLoS Pathog. 2017-10-01 [PMID: 29077752] (WB, Mouse)

Schild M, Ruhs A, Beiter T et al. Basal and exercise induced label-free quantitative protein profiling of m. vastus lateralis in trained and untrained individuals J Proteomics 2015-04-06 [PMID: 25857276] (WB, Human)



Procedures

Western Blot protocol for SDHA Antibody (NBP1-71688)

Western Blot Protocol

1. Perform SDS-PAGE on samples to be analyzed, loading 40 ug of total protein per lane.
2. Transfer proteins to membrane according to the instructions provided by the manufacturer of the membrane and transfer apparatus.
3. Stain according to standard Ponceau S procedure (or similar product) to assess transfer success, and mark molecular weight standards where appropriate.
4. Rinse the blot.
5. Block the membrane using standard blocking buffer for at least 1 hour.
6. Wash the membrane in wash buffer three times for 10 minutes each.
7. Dilute primary antibody in blocking buffer and incubate 1 hour at room temperature.
8. Wash the membrane in wash buffer three times for 10 minutes each.
9. Apply the diluted 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 three 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.

*Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%.

Immunocytochemistry/Immunofluorescence Protocol for SDHA Antibody (NBP1-71688)

Immunocytochemistry Protocol

Culture cells to appropriate density in 35 mm culture dishes or 6-well plates.

1. Remove culture medium and add 10% formalin to the dish. Fix at room temperature for 30 minutes.
2. Remove the formalin and add ice cold methanol. Incubate for 5-10 minutes.
3. Remove methanol and add washing solution (i.e. PBS). Be sure to not let the specimen dry out. Wash three times for 10 minutes.
4. To block nonspecific antibody binding incubate in 10% normal goat serum from 1 hour to overnight at room temperature.
5. Add primary antibody at appropriate dilution and incubate at room temperature from 2 hours to overnight at room temperature.
6. Remove primary antibody and replace with washing solution. Wash three times for 10 minutes.
7. Add secondary antibody at appropriate dilution. Incubate for 1 hour at room temperature.
8. Remove antibody and replace with wash solution, then wash for 10 minutes. Add Hoechst 33258 to wash solution at 1:25,000 and incubate for 10 minutes. Wash a third time for 10 minutes.
9. Cells can be viewed directly after washing. The plates can also be stored in PBS containing Azide covered in Parafilm (TM). Cells can also be cover-slipped using Fluoromount, with appropriate sealing.

*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.





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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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