Product Datasheet

SFXN2 Antibody - BSA Free
NBP1-85960

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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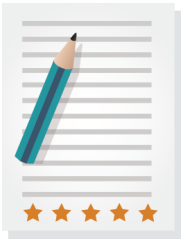
Updated 12/2/2025 v.20.1



NBP1-85960

SFXN2 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

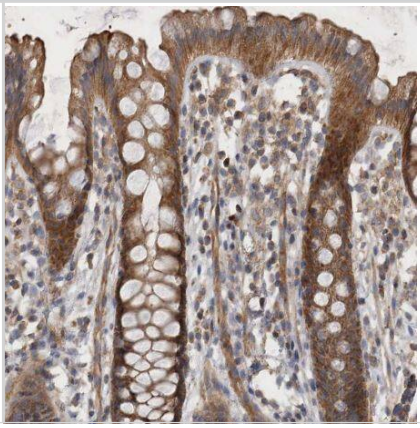
Description	Novus Biologicals Rabbit SFXN2 Antibody - BSA Free (NBP1-85960) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	118980
Gene Symbol	SFXN2
Species	Human
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (83%).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: PMMRQQELIKGICVKDRNENEIGHSRRAAAIGITQ

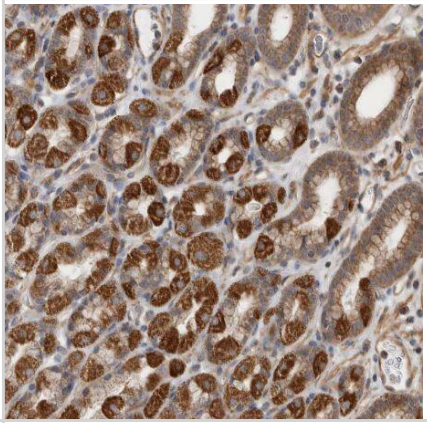
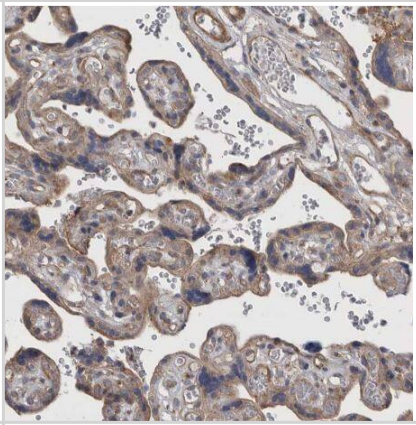
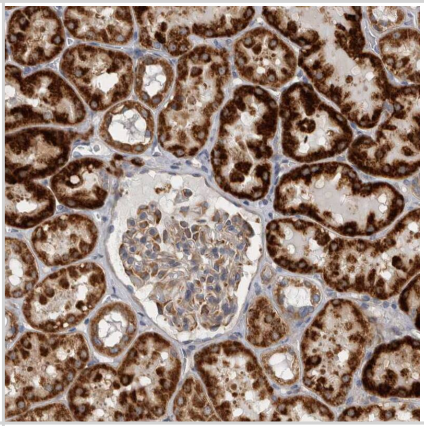
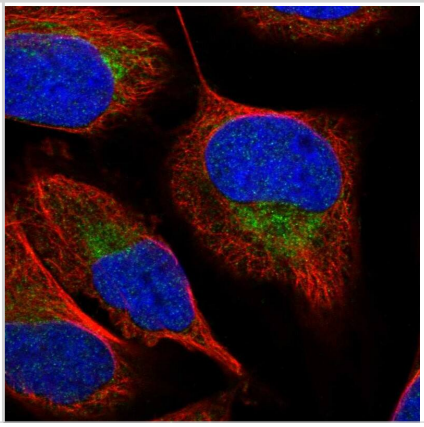
Product Application Details

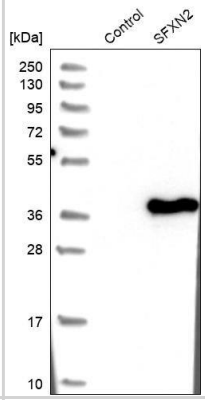
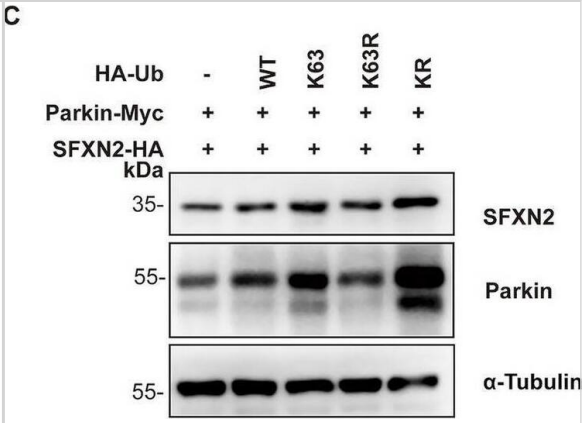
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 0.04 - 0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50 - 1:200
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF, Fixation Permeabilization: Use PFA/Triton X-100.

Images

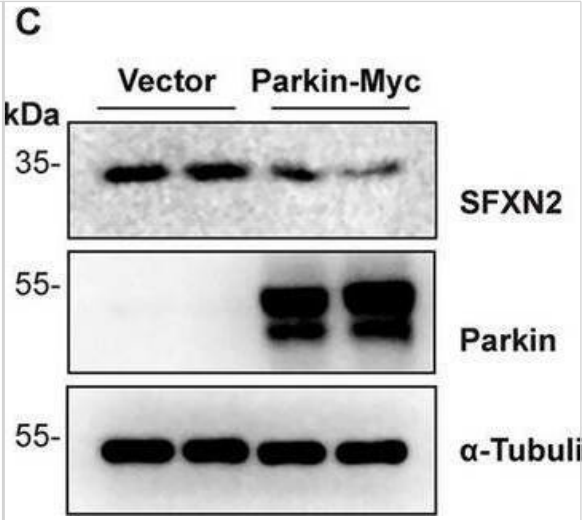
Staining of human rectum shows moderate cytoplasmic positivity in glandular cells.



Staining of human stomach shows strong cytoplasmic positivity in glandular cells.	
Staining of human placenta shows moderate positivity in trophoblastic cells.	
Staining of human kidney shows strong cytoplasmic positivity in cells in tubules.	
Staining of human cell line U-2 OS shows localization to mitochondria.	

Analysis in control (vector only transfected HEK293T lysate) and SFXN2 over-expression lysate (Co-expressed with a C-terminal myc-DDK tag (~3.1 kDa) in mammalian HEK293T cells).	
Parkin mediates SFXN2 degradation through K48-linked polyubiquitination (A,B) Western blot (WB) analysis of SFXN2, Parkin, and Ubiquitin protein levels in HEK293 cells expressing Parkin-Myc, SFXN2-HA, and Ubiquitin variant (control vector, HA-Ub-WT, HA-Ub-K48, HA-Ub-K48R, or HA-Ub-KR). Anti-α-Tubulin was used as the loading control for the immunoblotting (IB, A). Quantification of relative SFXN2 protein levels normalized to α-Tubulin is presented in the histogram (B). (C,D) WB analysis of SFXN2, Parkin, and Ubiquitin protein levels in HEK293 cells expressing Parkin-Myc, SFXN2-HA, and Ubiquitin variant (control vector, HA-Ub-WT, HA-Ub-K63, HA-Ub-K63R, or HA-Ub-KR). Anti-α-Tubulin was used as the loading control for the IB (C), Quantification of relative SFXN2 protein levels normalized to α-Tubulin is presented in the histogram (D). Images are representative of at least three independent experiments that gave similar results. Histogram data are presented as mean +/- SEM (N = 3). Statistical significance was analyzed using one way ANOVA. *p < 0.05, **p < 0.01, ***p < 0.001, ns, non-significant. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/40894005), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Parkin negatively regulates SFXN2 protein levels in cells (A,B) Western blot (WB) analysis of SFXN2 and Parkin protein levels in HEK293 cells transfected with scrambled siRNA or siRNA targeting Parkin (A). Quantification of relative SFXN2 protein levels normalized to α-Tubulin is presented in the histogram (B). (C,D) WB analysis of SFXN2 and Parkin protein levels in HEK293 cells overexpressing Parkin-Myc or control vector (C). Quantification of relative SFXN2 protein levels normalized to α-Tubulin is presented in the histogram (D). (E,F) WB analysis of endogenous SFXN2 and Parkin protein levels in HEK293 cells overexpressing control vector or Parkin-Myc (E), with or without 10 μM MG132 treatment for 8 h before harvest. Quantification of relative SFXN2 protein levels normalized to α-Tubulin is presented in the histogram (F). (G,H) WB analysis of SFXN2 and Parkin protein levels in HEK293 cells overexpressing SFXN2-HA alone or Parkin-Myc plus SFXN2-HA (G), with or without 10 μM MG132 treatment for 8 h before harvest. Quantification of relative SFXN2 protein levels normalized to α-Tubulin is presented in the histogram (H). (I,J) WB analysis of SFXN2 and Parkin protein levels in HEK293 cells expressing SFXN2-HA and Parkin variant (control vector, Parkin-WT, Pakin-T240R, or Parkin-R42P). Anti-α-Tubulin was used as the loading control for the IB. Quantification of relative SFXN2 protein levels normalized to α-Tubulin is presented in the histogram (J). Images are representative of at least three independent experiments that gave similar results. Histogram data are presented as mean +/- SEM (N = 3). Statistical significance was analyzed using one-way ANOVA and two-way ANOVA. *p < 0.05, **p < 0.01, ***p < 0.001, ns, non-significant. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/40894005), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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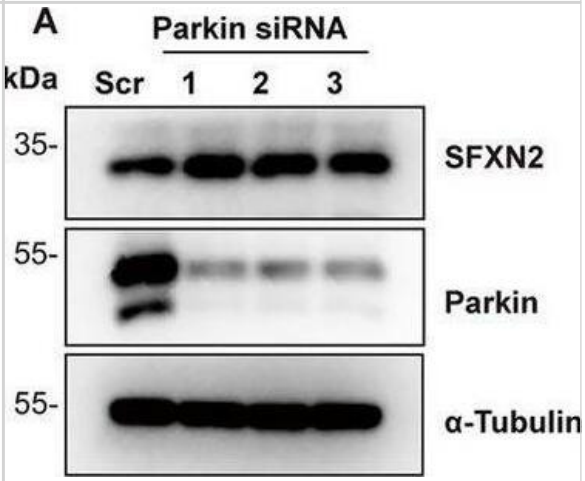

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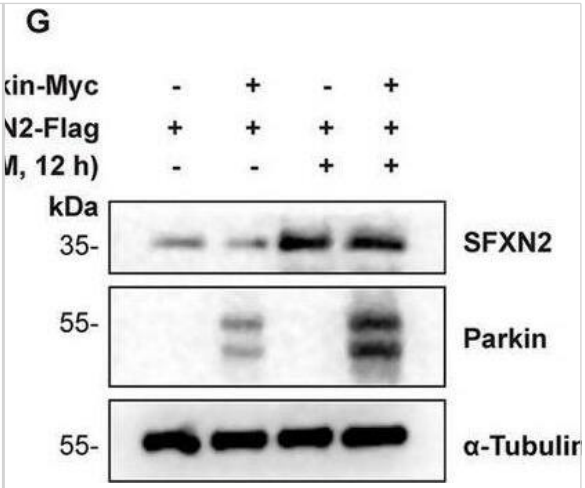
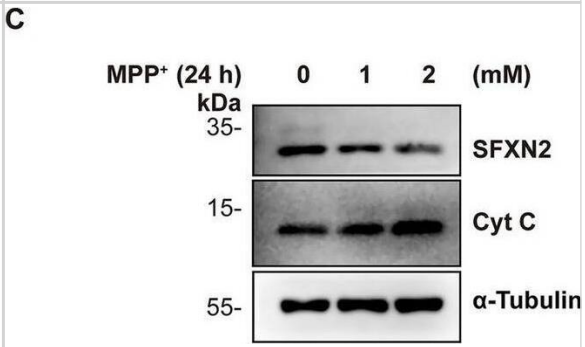
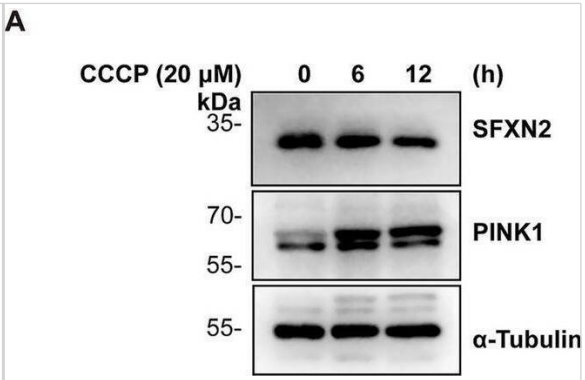


Mitochondrial impairment decreases SFXN2 levels (A,B) Western blot (WB) analysis of SFXN2 and PINK1 protein levels in HEK293 cells treated with 20 μM CCCP for the indicated time periods (A). Quantification of relative SFXN2 protein levels normalized to α-Tubulin is presented in the histogram (B). (C,D) WB analysis of SFXN2 and Cytochrome C (Cyt C) protein levels in HEK293 cells treated with the indicated concentrations of MPP+ for 24 h (C). Quantification of relative SFXN2 protein levels normalized to α-Tubulin is presented in the histogram (D). (E,F) WB analysis of SFXN2 and PINK1 protein levels in HEK293 cells treated with vehicle control (0.05% (v/v) DMSO), CCCP (10 μM) alone, or CCCP (10 μM) combined with MG132 (10 μM) for 12 h (E). Quantification of relative SFXN2 protein levels normalized to actin is presented in the histogram (F). Images are representative of at least three independent experiments with similar results. Histogram data are presented as mean +/- SEM (N = 3). Statistical significance was analyzed using one-way ANOVA. *p < 0.05, **p < 0.01, ***p < 0.001. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/40894005), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Mitochondrial impairment decreases SFXN2 levels (A,B) Western blot (WB) analysis of SFXN2 and PINK1 protein levels in HEK293 cells treated with 20 µM CCCP for the indicated time periods (A). Quantification of relative SFXN2 protein levels normalized to α-Tubulin is presented in the histogram (B). (C,D) WB analysis of SFXN2 and Cytochrome C (Cyt C) protein levels in HEK293 cells treated with the indicated concentrations of MPP+ for 24 h (C). Quantification of relative SFXN2 protein levels normalized to α-Tubulin is presented in the histogram (D). (E,F) WB analysis of SFXN2 and PINK1 protein levels in HEK293 cells treated with vehicle control (0.05% (v/v) DMSO), CCCP (10 µM) alone, or CCCP (10 µM) combined with MG132 (10 µM) for 12 h (E). Quantification of relative SFXN2 protein levels normalized to actin is presented in the histogram (F). Images are representative of at least three independent experiments with similar results. Histogram data are presented as mean +/- SEM (N = 3). Statistical significance was analyzed using one-way ANOVA. *p < 0.05, **p < 0.01, ***p < 0.001. Image collected and cropped by CiteAb from the following open publication (https://pubmed.ncbi.nlm.nih.gov/40894005), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	
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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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