

Product Datasheet

WDR60 Antibody - BSA Free

NBP1-90437

Unit Size: 0.1 ml

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

www.novusbio.com



technical@novusbio.com

Publications: 2

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-90437

Updated 3/4/2026 v.20.1

Earn rewards for product
reviews and publications.

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NBP1-90437



NBP1-90437

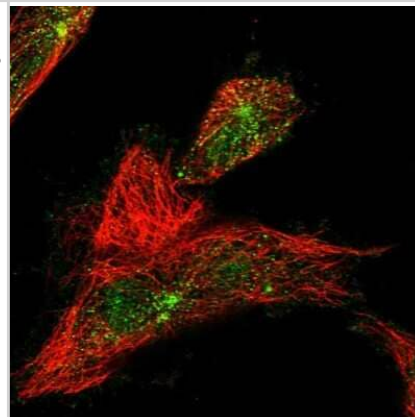
WDR60 Antibody - BSA Free

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	
Host	Rabbit
Gene ID	55112
Gene Symbol	WDR60
Species	Human
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Mouse (82%), Rat (82%).
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: DIQTEEIETREVWVTQHPGESTVVSGGSEQRDTSDAVVMPKIDTPRLCSFLRAA CQVMAVLLLEEDRLAAEPSWNLRAQDRALYFSDSSSQLNTSLPFLQNRKVSSLH TSRVQRQMVVSVH
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Knockdown Validated, Knockout Validated
Recommended Dilutions	Western Blot Reported in scientific literature (PMID:30320547), Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunoprecipitation Reported in scientific literature (PMID:30320547), Immunohistochemistry-Paraffin 1:50 - 1:200, Knockout Validated, Knockdown Validated Reported in scientific literature (PMID:30320547)
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF, Fixation Permeabilization: Use PFA/Triton X-100.

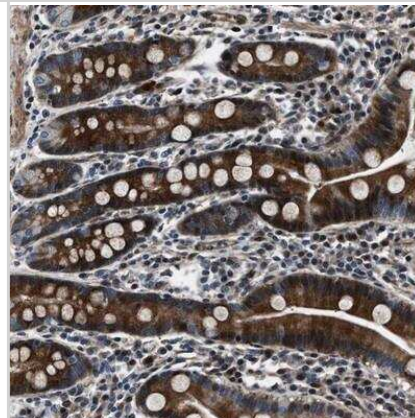


Images

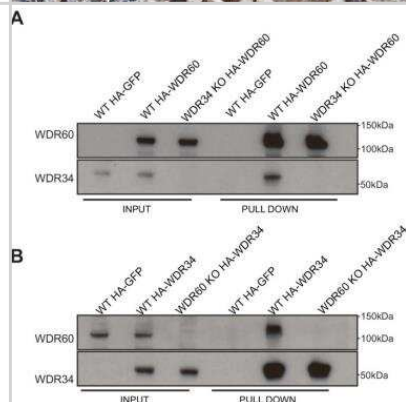
Immunocytochemistry/Immunofluorescence: WDR60 Antibody [NBP1-90437] - Immunofluorescent staining of human cell line U-251 MG shows localization to nucleoplasm, cytosol & microtubule organizing center. Antibody staining is shown in green.



Immunohistochemistry-Paraffin: WDR60 Antibody [NBP1-90437] - Staining of human duodenum shows strong cytoplasmic positivity in glandular cells.

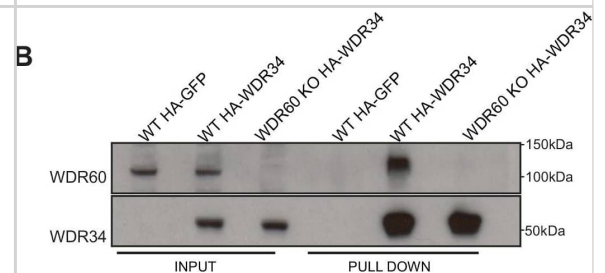
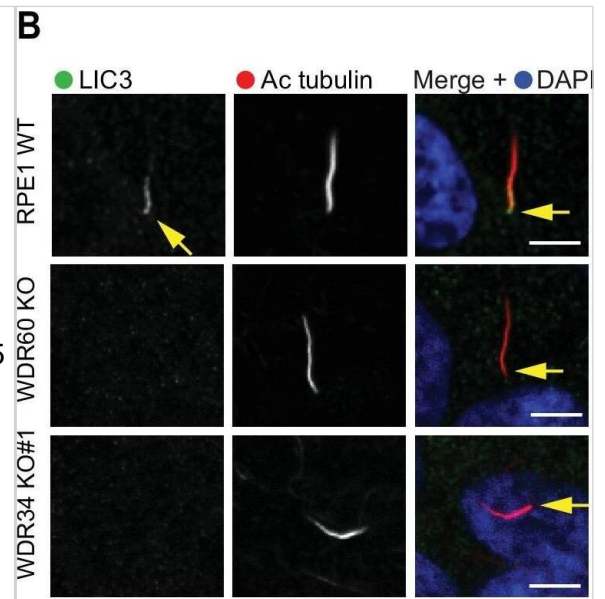


Western Blot: WDR60 Antibody [NBP1-90437] - HA-WDR34 (NBP1-88805) and HA-WDR60 (NBP1-90437) expression in WT and KO cells. (A) Pull down of HA-WDR60 in WT and WDR34 KO cells. HA-WDR60 pulls down WDR34 in WT but not in KO cells (B) Pull down of HA-WDR34 in WT and WDR60 KO cells. HA-WDR34 pulls down WDR60 in WT but not in KO cells. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30320547/>) licensed under a CC-BY license.

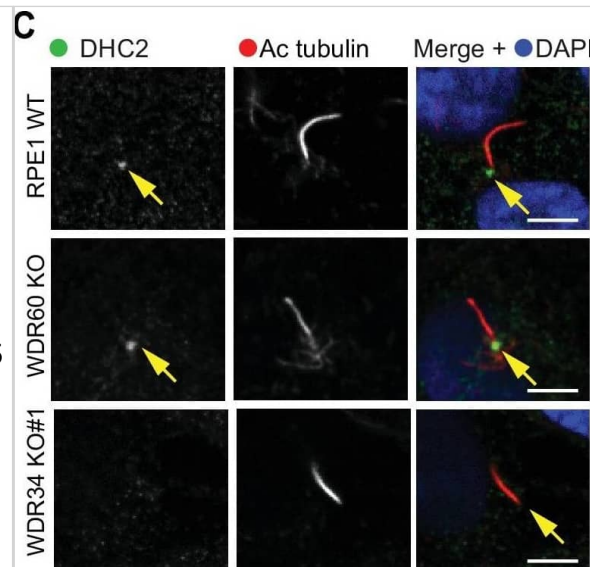


Dynein-2 assembly in primary cilium. (A) Immunoblotting for WDR60 & WDR34 in WT, WDR34 KO#1 & WDR60 KO cells. Arrows indicate WDR34 & WDR60 proteins. (B) LIC3/DYNC2LI1 localization in the cilia of WT, WDR34 KO#1 & WDR60 KO cells. (C) DHC2/DYNC2H1 localization at the ciliary base in WT & KO cells. (Ci) Intensity quantification shows a reduction of DHC2/DYNC2H1 at the ciliary base in WDR34 KO#1 cells (n = 3, 120 WT, 106 WDR60 KO, & 71 WDR34 KO #1 cells quantified). (D) TCTEX1/DYNLT1 localizes at the ciliary base in WT & KO cells. (Di) Intensity quantification of TCTEX1/DYNLT1 at the ciliary base (n = 3 115 WT, 85 WDR60 KO, & 50 WDR34 KO#1 cells quantified). Mann-Whitney test, p-value: ****= <0.0001 . Scale bars 5 μ m. Arrows point to the ciliary base. Overexpression of WDR34 cannot rescue WDR60 KO phenotype & vice versa. (A) HA-WDR60 localization in WT & WDR34 KO cells. (Ai) Intensity quantification of HA-WDR60 in primary cilia (n = 3, 50 WT & 50 WDR34 KO cells quantified). Mann-Whitney test was used, p-value: ****= <0.0001 . (B) HA-WDR34 localization in WT & WDR60 cells. For HA immunolabeling in Fig. A & B cells were treated with cytoskeletal buffer as described in methods. (C) Arl13b staining of WDR34 KO cells expressing HA-WDR60. HA labeling in green shows stable expression of HA-WDR60. (D) IFT88 localizes predominantly at the ciliary base in WT cells whereas WDR60 KO cells stably expressing HA-WDR34 accumulate IFT88 at the ciliary tip, similar to untransfected WDR60 KO cells. Scale bars 5 μ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30320547>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

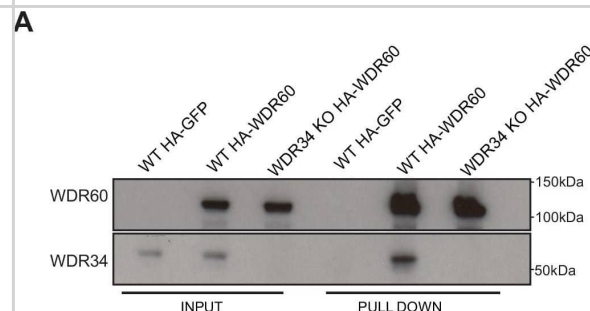
HA-WDR34 & HA-WDR60 expression in WT & KO cells. (A) Pull down of HA-WDR60 in WT & WDR34 KO cells. HA-WDR60 pulls down WDR34 in WT but not in KO cells (B) Pull down of HA-WDR34 in WT & WDR60 KO cells. HA-WDR34 pulls down WDR60 in WT but not in KO cells. (C) Immunoprecipitation of HA-tagged GFP, WDR60, & WDR34 followed by immunoblot for LIC3. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30320547>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



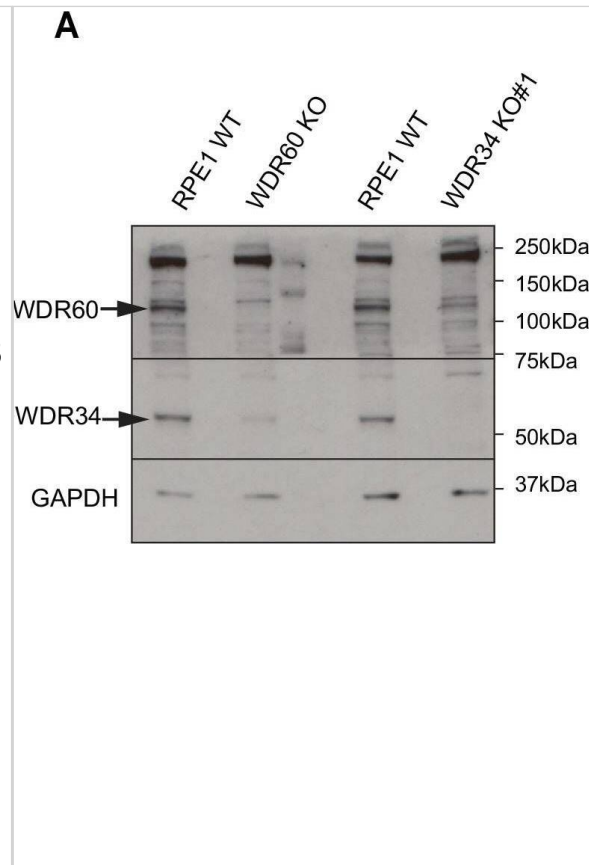
Dynein-2 assembly in primary cilium. (A) Immunoblotting for WDR60 & WDR34 in WT, WDR34 KO#1 & WDR60 KO cells. Arrows indicate WDR34 & WDR60 proteins. (B) LIC3/DYNC2LI1 localization in the cilia of WT, WDR34 KO#1 & WDR60 KO cells. (C) DHC2/DYNC2H1 localization at the ciliary base in WT & KO cells. (Ci) Intensity quantification shows a reduction of DHC2/DYNC2H1 at the ciliary base in WDR34 KO#1 cells ($n = 3$, 120 WT, 106 WDR60 KO, & 71 WDR34 KO #1 cells quantified). (D) TCTEX1/DYNLT1 localizes at the ciliary base in WT & KO cells. (Di) Intensity quantification of TCTEX1/DYNLT1 at the ciliary base ($n = 3$ 115 WT, 85 WDR60 KO, & 50 WDR34 KO#1 cells quantified). Mann-Whitney test, p -value: ****= <0.0001 . Scale bars 5 μ m. Arrows point to the ciliary base. Overexpression of WDR34 cannot rescue WDR60 KO phenotype & vice versa. (A) HA-WDR60 localization in WT & WDR34 KO cells. (Ai) Intensity quantification of HA-WDR60 in primary cilia ($n = 3$, 50 WT & 50 WDR34 KO cells quantified). Mann-Whitney test was used, p -value: ****= <0.0001 . (B) HA-WDR34 localization in WT & WDR60 cells. For HA immunolabeling in Fig. A & B cells were treated with cytoskeletal buffer as described in methods. (C) Arl13b staining of WDR34 KO cells expressing HA-WDR60. HA labeling in green shows stable expression of HA-WDR60. (D) IFT88 localizes predominantly at the ciliary base in WT cells whereas WDR60 KO cells stably expressing HA-WDR34 accumulate IFT88 at the ciliary tip, similar to untransfected WDR60 KO cells. Scale bars 5 μ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30320547>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



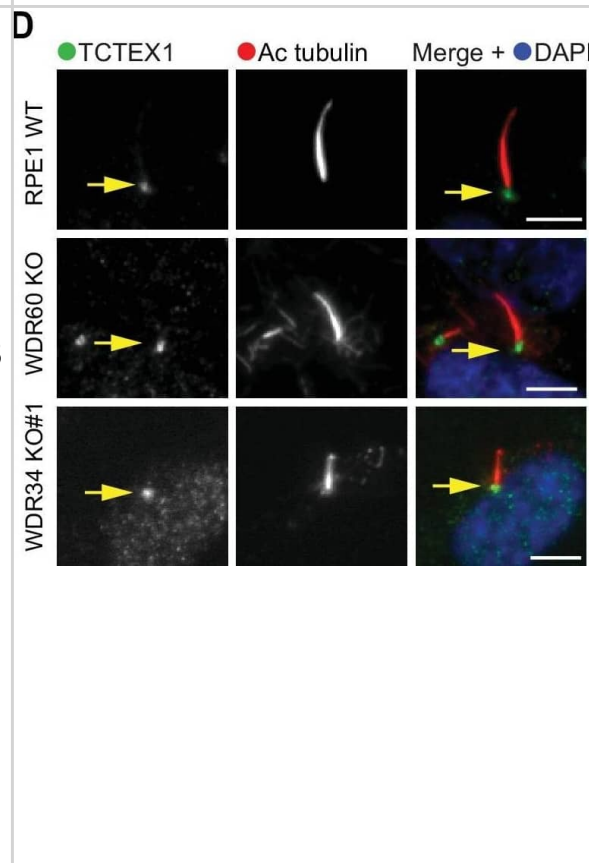
HA-WDR34 & HA-WDR60 expression in WT & KO cells. (A) Pull down of HA-WDR60 in WT & WDR34 KO cells. HA-WDR60 pulls down WDR34 in WT but not in KO cells (B) Pull down of HA-WDR34 in WT & WDR60 KO cells. HA-WDR34 pulls down WDR60 in WT but not in KO cells. (C) Immunoprecipitation of HA-tagged GFP, WDR60, & WDR34 followed by immunoblot for LIC3. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30320547>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Dynein-2 assembly in primary cilium. (A) Immunoblotting for WDR60 & WDR34 in WT, WDR34 KO#1 & WDR60 KO cells. Arrows indicate WDR34 & WDR60 proteins. (B) LIC3/DYNC2LI1 localization in the cilia of WT, WDR34 KO#1 & WDR60 KO cells. (C) DHC2/DYNC2H1 localization at the ciliary base in WT & KO cells. (Ci) Intensity quantification shows a reduction of DHC2/DYNC2H1 at the ciliary base in WDR34 KO#1 cells (n = 3, 120 WT, 106 WDR60 KO, & 71 WDR34 KO #1 cells quantified). (D) TCTEX1/DYNLT1 localizes at the ciliary base in WT & KO cells. (Di) Intensity quantification of TCTEX1/DYNLT1 at the ciliary base (n = 3 115 WT, 85 WDR60 KO, & 50 WDR34 KO#1 cells quantified). Mann-Whitney test, p-value: ****= <0.0001 . Scale bars 5 μ m. Arrows point to the ciliary base. Overexpression of WDR34 cannot rescue WDR60 KO phenotype & vice versa. (A) HA-WDR60 localization in WT & WDR34 KO cells. (Ai) Intensity quantification of HA-WDR60 in primary cilia (n = 3, 50 WT & 50 WDR34 KO cells quantified). Mann-Whitney test was used, p-value: ****= <0.0001 . (B) HA-WDR34 localization in WT & WDR60 cells. For HA immunolabeling in Fig. A & B cells were treated with cytoskeletal buffer as described in methods. (C) Arl13b staining of WDR34 KO cells expressing HA-WDR60. HA labeling in green shows stable expression of HA-WDR60. (D) IFT88 localizes predominantly at the ciliary base in WT cells whereas WDR60 KO cells stably expressing HA-WDR34 accumulate IFT88 at the ciliary tip, similar to untransfected WDR60 KO cells. Scale bars 5 μ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30320547>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Dynein-2 assembly in primary cilium. (A) Immunoblotting for WDR60 & WDR34 in WT, WDR34 KO#1 & WDR60 KO cells. Arrows indicate WDR34 & WDR60 proteins. (B) LIC3/DYNC2LI1 localization in the cilia of WT, WDR34 KO#1 & WDR60 KO cells. (C) DHC2/DYNC2H1 localization at the ciliary base in WT & KO cells. (Ci) Intensity quantification shows a reduction of DHC2/DYNC2H1 at the ciliary base in WDR34 KO#1 cells (n = 3, 120 WT, 106 WDR60 KO, & 71 WDR34 KO #1 cells quantified). (D) TCTEX1/DYNLT1 localizes at the ciliary base in WT & KO cells. (Di) Intensity quantification of TCTEX1/DYNLT1 at the ciliary base (n = 3 115 WT, 85 WDR60 KO, & 50 WDR34 KO#1 cells quantified). Mann-Whitney test, p-value: ****= <0.0001 . Scale bars 5 μ m. Arrows point to the ciliary base. Overexpression of WDR34 cannot rescue WDR60 KO phenotype & vice versa. (A) HA-WDR60 localization in WT & WDR34 KO cells. (Ai) Intensity quantification of HA-WDR60 in primary cilia (n = 3, 50 WT & 50 WDR34 KO cells quantified). Mann-Whitney test was used, p-value: ****= <0.0001 . (B) HA-WDR34 localization in WT & WDR60 cells. For HA immunolabeling in Fig. A & B cells were treated with cytoskeletal buffer as described in methods. (C) Arl13b staining of WDR34 KO cells expressing HA-WDR60. HA labeling in green shows stable expression of HA-WDR60. (D) IFT88 localizes predominantly at the ciliary base in WT cells whereas WDR60 KO cells stably expressing HA-WDR34 accumulate IFT88 at the ciliary tip, similar to untransfected WDR60 KO cells. Scale bars 5 μ m. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30320547>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Vuolo Laura, Stevenson Nicola L, Heesom Kate J, Stephens David J Dynein-2 intermediate chains play crucial but distinct roles in primary cilia formation and function. *International Immunology* 2018-10-16 [PMID: 30320547] (KD, IP, WB, Human)

Asante D, Stevenson NL, Stephens DJ. Subunit composition of the human cytoplasmic dynein-2 complex. *J Cell Sci* 2014-11-01 [PMID: 25205765] (ICC/IF, WB, Human)





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP1-90437

NBP1-90437PEP	WDR60 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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NBP1-90437

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

