

Datasheet for 600-401-676**WHIP Antibody****Overview**

Description:	Anti-Human WHIP (RABBIT) Antibody - 600-401-676
Item No.:	600-401-676
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Werner's syndrome is a rare autosomal recessive disorder characterized by premature aging. Werner helicase interacting protein 1 (WHIP) interacts with the N-terminal portion of Werner protein, which contains an exonuclease domain. This protein shows homology to replication factor C family proteins, and is conserved from E. coli to human. Studies in yeast suggest that this gene product may influence the aging process. A second isoform exists (WHIP2).
Synonyms:	rabbit anti-WHIP antibody, ATPase WRNIP 1 antibody, ATPase WRNIP1 antibody, Werner helicase interacting protein 1 antibody, WRNIP-1
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	WRNIP1
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region of the WHIP1 protein. The immunogen sequence shows 100% homology to human WHIP1 (isoform 1) and WHIP2 (isoform 2) with predicted molecular weights of 72.2 kDa and 69.5 kDa, respectively. The immunogen sequence also shows 100% homology to WHIP1 from mouse, rat and monkey sequences. Reactivity with WHIP proteins from other sources is not known, but is likely due to reported homologies.
Purity/Specificity:	This is an affinity purified antibody produced by immunoaffinity chromatography using the immunizing peptide immobilized to a solid phase. Reactivity is expected against human, mouse, rat and monkey WHIP1 protein.
Relevant Links:	• UniProtKB - Q96S55 • NCBI - 55661735 • GenelD - 56897

Application Details

Tested Applications:	ELISA, WB
Application Note:	This affinity purified antibody has been tested by WB and ELISA. Anti-WHIP is useful in western blotting against HEK293 whole cell lysates. Dilutions for western blotting represent a starting point dilution and further optimization may be required. The antibody detects a band of approximately 96.0 kDa (predicted molecular weight: 72.2 kDa). Specific band detection by western blot is blocked by pre-incubating the antibody with the immunizing peptide prior to reaction with the membrane. Reactivity in other immunoassays is unknown.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:40,000
IHC:	User Optimized
WB:	1:500 - 1:2,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

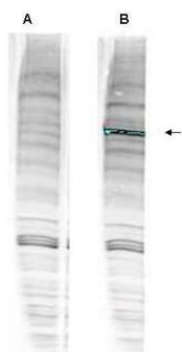
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western blot analysis is shown using Rockland's Affinity Purified anti-Human WHIP antibody to detect Human WHIP present in a HEK293 whole cell lysate. ~30µg of lysate was loaded per lane for 4-20% gradient SDS-PAGE. Comparison to a molecular weight marker (not shown) indicates a primary band of ~96.0 kDa is detected. The identity of the minor band migrating at a slightly higher molecular weight is unknown, but may represent an alternate isoform of WHIP or post translational modification of the WHIP protein. See Figure 2 for the results of peptide competition experiments. The blot was incubated with a 1:200 dilution of the antibody at room temperature for 2 h followed by detection using IRDye® 800 labeled Goat-a-Rabbit IgG [H&L] MX10 (611-132-122) diluted 1:5,000 for 45 min. IRDye® 800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.



Western Blot

Western blot analysis is shown using Rockland's anti-Human WHIP antibody with and without pre-incubation with blocking peptide. Testing was performed on antiserum prior to affinity purification. Peptide competition (left) blocks the specific staining, whereas the control (right) shows staining of a strong dominant band corresponding to human WHIP1. ~30µg of HEK293 lysate was loaded per lane for 4-20% gradient SDS-PAGE. Comparison to a molecular weight marker (not shown) indicates a band of ~96.0 kDa is detected. The blot was incubated with a 1:1000 dilution of the antibody at room temperature for 2 h followed by detection using IRDye® 800 labeled Goat-a-Rabbit IgG [H&L] MX10 (611-132-122) diluted 1:5,000 for 45 min. IRDye® 800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other systems will yield similar results.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.