Datasheet for ABIN129611

anti-WRNIP1 antibody (Internal Region, Isoform 1, Isoform 2)

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2 Images

Overview

Quantity:	100 µg
Target:	WRNIP1
Binding Specificity:	Internal Region, Isoform 1, Isoform 2
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This WRNIP1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an of the WHIP1 protein. The immunogen sequence shows 100% homology to human WHIP1 and WHIP2 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.
Isotype:	IgG
Cross-Reactivity:	Mouse (Murine), Rat (Rattus), Monkey
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	WRNIP1
Alternative Name:	WHIP (WRNIP1 Products)
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: ATPase WRNIP 1 antibody, ATPase WRNIP1 antibody, bA420G6.2 antibody, FLJ22526 antibody, Putative helicase RUVBL antibody, RP11 420G6.2 antibody, Werner helicasae interacting protein 1 antibody
Gene ID:	56897, 55661735
UniProt:	Q96S55

Application Details

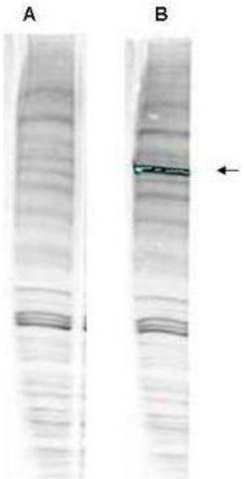
Application Notes:	This affinity purified antibody has been tested for use in western blotting against HEK293 whole cell lysates. The antibody is also functional by ELISA. Dilutions for western blotting represent a starting point dilution and further optimization may be required. The antibody detects 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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.10 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Western Blotting

Image 1. Western blot analysis is shown using 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 800 labeled Goat-a-Rabbit IgG [H&L] MX10 diluted 1:5,000 for 45 min. 800 fluorescence image was captured using the Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.



Western Blotting

Image 2. Western blot analysis is shown using 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 800 labeled Goat-a-Rabbit IgG [H&L] MX10 diluted 1:5,000 for 45 min. 800 fluorescence image was captured using the Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc.

Other systems will yield similar results.

