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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-WHIP WRNIP1 Antibody

Catalog Number: A06521

About WRNIP1

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).

Overview

Product Name	Anti-WHIP WRNIP1 Antibody
Reactive Species	Human
Description	Boster Bio Anti-WHIP WRNIP1 Antibody (Catalog # A06521). Tested in ELISA, WB applications. This antibody reacts with Human.
Application	ELISA, IHC, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	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 date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q96S55

Technical Details

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.
Predicted Reactive Species	Canine, Chimpanzee, Orangutan
Isotype	IgG
Form	Liquid (sterile filtered)

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Concentration	1.0mg/ml by UV absorbance at 280 nm
Purification	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.
Suggested Dilutions	ELISA: 1:10,000 - 1:40,000 IHC: User optimized WB: 1:500 - 1:2,000 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.

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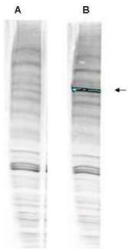
Anti-WHIP WRNIP1 Antibody (A06521) Images

Western blot analysis is shown using Boster'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 analysis is shown using Boster'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.