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Anti-Human WHIP (RABBIT) Antibody

WHIP Antibody
Catalog # ASR5268

Specification

Anti-Human WHIP (RABBIT) Antibody - Product Information

Host	**Rabbit**
Conjugate	**Unconjugated**
Target Species	**Human**
Reactivity	**Human**
Clonality	**Polyclonal**
Application	**WB, IHC, E, I, LCI**
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.**
Physical State	**Liquid (sterile filtered)**
Buffer	**0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2**
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.**
Preservative	**0.01% (w/v) Sodium Azide**

Anti-Human WHIP (RABBIT) Antibody - Additional Information

Gene ID 56897

Other Names
56897

Purity
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.

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.

Precautions Note
This product is for research use only and is not intended for therapeutic or diagnostic applications.

Anti-Human WHIP (RABBIT) Antibody - Protein Information

Name WRNIP1 (HGNC:20876)

Function
Functions as a modulator of initiation or reinitiation events during DNA polymerase delta-mediated DNA synthesis. In the presence of ATP, stimulation of DNA polymerase delta-mediated DNA synthesis is decreased. Also plays a role in the innate immune defense against viruses. Stabilizes the RIGI dsRNA interaction and promotes RIGI 'Lys- 63'-linked polyubiquitination. In turn, RIGI transmits the signal through mitochondrial MAVS.

Cellular Location
Nucleus. Cytoplasm. Note=Colocalizes with WRN in granular structures in the nucleus.

Tissue Location
Ubiquitously expressed.

Anti-Human WHIP (RABBIT) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Human WHIP (RABBIT) Antibody - Images

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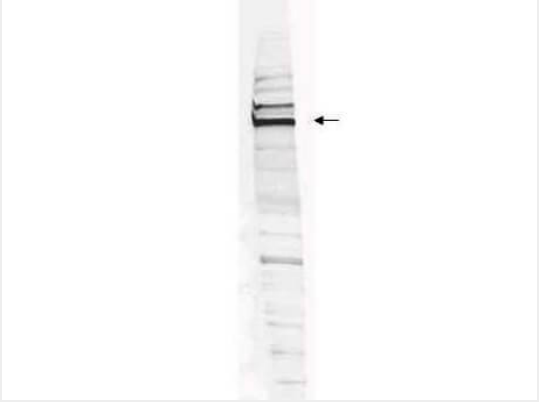

Western blot analysis is shown using Rockland's Affinity Purified anti-Human WHIP antibody to detect Human WHIP present in a HEK293 whole cell lysate. ~30 µg of lysate was loaded per lane for 4-20% gradient SDS-PAGE. Comparison to a molecular weight marker (not shown) indicates a primary band of ~96.0 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.

Anti-Human WHIP (RABBIT) Antibody - 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).