

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

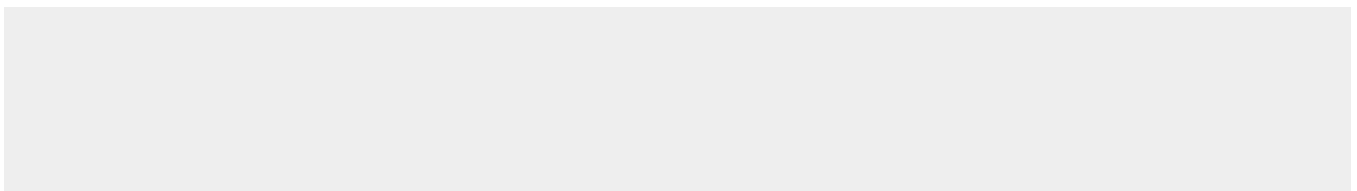
Ubiquitously expressed.

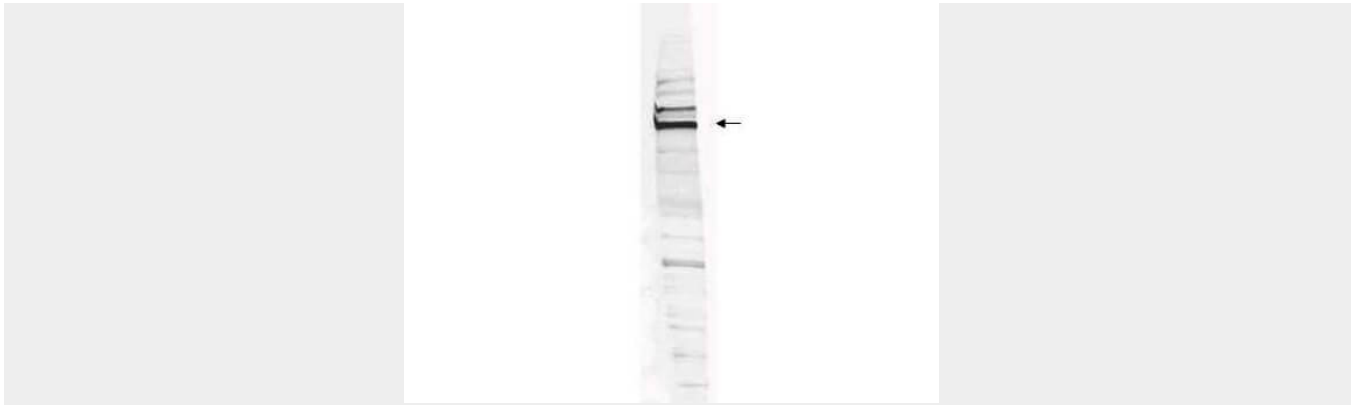
Anti-Human WHIP (RABBIT) Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Human WHIP (RABBIT) Antibody - Images





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 μ g 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).