

Datasheet for 600-401-FN1**TRB3 Antibody****Overview**

Description:	Anti-TRB3 (RABBIT) Antibody - 600-401-FN1
Item No.:	600-401-FN1
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	TRB3 was initially identified as a novel kinase-like gene that was overexpressed in multiple human tumors and regulated by hypoxia (1). In the liver, TRB3 binds and inhibits AKT activity, leading to impaired insulin signaling (2), whereas in adipose tissue TRB3 is involved in the regulation of fatty acid oxidation through ubiquitination of Acetyl-CoA carboxylase (3). Endoplasmic reticulum (ER) stress induces TRB3 expression in skeletal muscle, leading to a decrease in insulin signaling and glucose uptake, suggesting that inhibition of TRB3 expression may be a potential therapeutic treatment for managing insulin resistance (4).
Synonyms:	Tribbles homolog 3, TRB-3, Neuronal cell death-inducible putative kinase, SINK, p65-interacting inhibitor of NF-kappa-B, TRIB3, C20orf97, NIPK, SKIP3, TRB3
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TRIB3
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-TRB3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid peptide near the internal region of human TRB3.

Purity/Specificity: Anti-TRB3 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. TRB3 antibody is human, mouse and rat reactive. At least two isoforms of TRB3 are known to exist; this antibody will detect both isoforms.

Relevant Links:

- [UniProtKB - Q96RU7](#)
- [GeneID - 57761](#)
- [NCBI - NP_001288117.1](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-TRB3 Antibody has been tested for use in ELISA, Immunohistochemistry, Immunofluorescence, and Western Blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 40 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000-1:20,000

IF: 20 µg/mL

IHC: 5 µg/mL

WB: 1-2 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

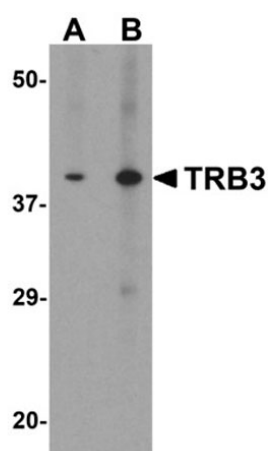
Shipping & Handling

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

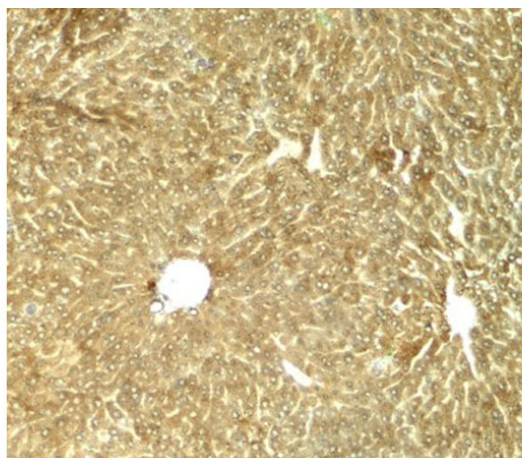


Western Blot

Western blot of TRB3.

Load: mouse kidney tissue lysate.

Primary Antibody: TRB3 antibody at (A) 1 and (B) 2 µg/ml.

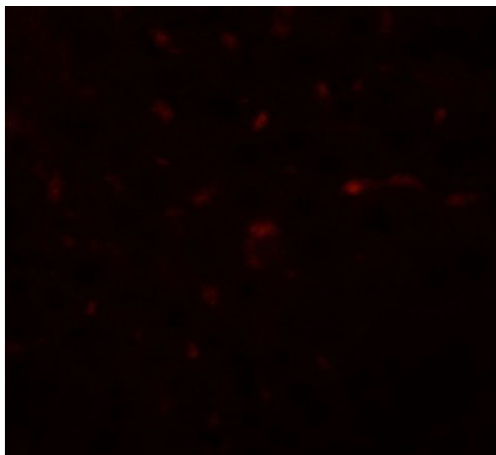


Immunohistochemistry

Immunohistochemistry of TRB3.

Tissue: mouse liver tissue.

Primary Antibody: TRB3 antibody at 5 µg/mL.

**Immunofluorescence Microscopy**

Immunofluorescence of TRB3.

Tissue: mouse liver tissue.

Primary Antibody: TRB3 antibody at 20 µg/mL.

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.