Datasheet for 200-401-A67

TIRAP Antibody

Overview

Description:	Anti-TIRAP (RABBIT) Antibody - 200-401-A67
Item No.:	200-401-A67
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Toll-like receptors (TLRs) are signaling molecules that recognize different microbial products during infection and serve as an important link between the innate and adaptive immune responses. These proteins act through adaptor molecules such as TIRAP (Toll-interleukin 1 receptor domain-containing adaptor protein) and MyD88 to activate various kinases and transcription factors. In TIRAP-deficient mice, TLR signaling in response to TLR2 ligands (using either TLR1 or TLR6 as co-receptors) is totally abolished, suggesting that MyD88 and TIRAP work together and are both required for TLR2 signaling. Furthermore, these mice are also resistant to the toxic effects of LPS and show defects in NF-kB and MAP kinase activation, suggesting that TIRAP is also involved in TLR4 signaling. Anti-TIRAP antibody is ideal for investigators involved cytokines and growth factors research.
Synonyms:	Adapter protein wyatt antibody, FLJ42305 antibody, MAL antibody, MyD88 adapter like protein antibody, TIR domain containing adapter protein antibody, Toll interleukin 1 receptor (TIR) domain containing adaptor protein antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TIRAP
Reactivity:	Human, Mouse, Rat

Immunogen Type:	Conjugated Peptide
Immunogen:	TIRAP Antibody was produced from whole rabbit serum prepared by repeated immunizations with a peptide corresponding to amino acids near the C-terminus of mouse TIRAP.
Purity/Specificity:	Anti-TIRAP Antibody was purified from monospecific antiserum. This product is affinity chromatography purified via peptide column. A BLAST analysis was used to suggest cross-reactivity with TIRAP with Human, Mouse and Rat based on 100% homology with the immunizing sequence. Cross-reactivity with TIRAP from other sources has not been determined.
Relevant Links:	• NCBI - NP_001171318.1 • UniProtKB - Q99JY1 • GeneID - 117149

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-TIRAP antibody has been tested for use in ELISA, immunohistochemistry, IF, and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band at ~34 kDa in size corresponding to TIRAP by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:40,000
IF:	10µg/mL
IHC:	2 µg/ml
WB:	1:500 - 1:3,000

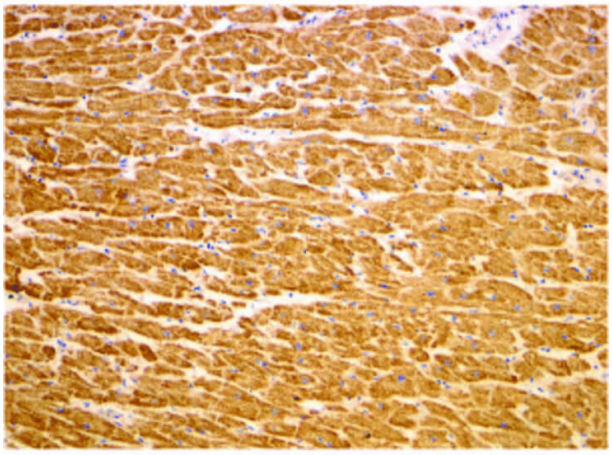
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

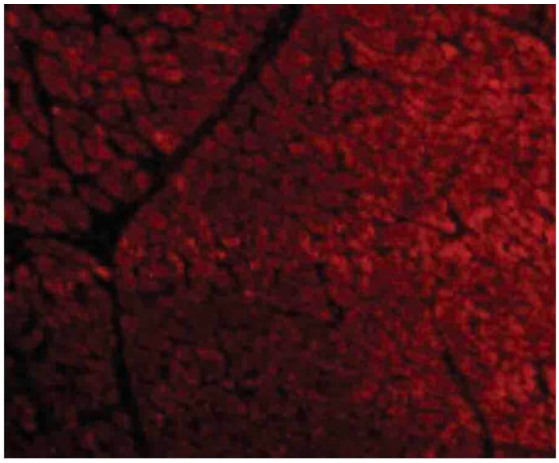
Shipping & Handling

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.

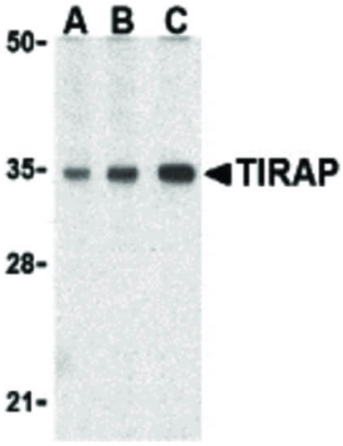
Images



Immunohistochemistry
Immunohistochemistry of TIRAP antibody. Cell Type: human heart cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: TIRAP antibody at 2 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: TIRAP is found in the cell membrane. Staining: TIRAP is stained with hematoxylin purple nuclear counterstain.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of TIRAP antibody. Cell Type: human heart cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: TIRAP antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: TIRAP is located in the cell membrane. Staining: TIRAP as red fluorescent signal.



Western Blot

Western Blot of TIRAP antibody. Lane A: human heart cell lysates at 0.5 µg/ml. Lane B: human heart cell lysates at 1 µg/ml. Lane C: human heart cell lysates at 2 µg/ml. Load: 35 µg per lane. Primary antibody: TIRAP antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 42 kDa, 35 kDa for TIRAP. Other band(s): TIRAP splice variants and isoforms.

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.