

Datasheet for 200-301-G53**TRAP1 Antibody****Overview**

Description:	Anti-TRAP1 (MOUSE) Monoclonal Antibody - 200-301-G53
Item No.:	200-301-G53
Size:	100 µg
Applications:	IF, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	The 90 kDa heat shock protein (hsp90) family of proteins that play an important physiological role. Hsp90 is involved in numerous cellular processes but is best known for its association with signal transduction machinery. A recently cloned homolog of hsp90 is the tumor necrosis factor receptor-associated protein (TRAP1). Like hsp90, TRAP1 is found to be associated with numerous proteins involved in diverse actions. Immunofluorescence data has shown TRAP1 to be localized in the mitochondria of mammalian cells. This observation and the fact that TRAP1 is shown to have a mitochondrial targeting presequence strongly implicates TRAP1 as a mitochondrial matrix protein.
Synonyms:	HSP75, Hsp90L, TNFR, Tumor necrosis factor type 1, Heat shock protein 75 kDa, mitochondrial, TNFR-associated protein 1, Tumor necrosis factor type 1 receptor-associated protein, TRAP-1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	Trap1-6
Format:	IgG2a

Target Details

Gene Name:	TRAP1
Reactivity:	Human
Immunogen Type:	Recombinant Protein

Immunogen:	Trap1 Antibody was produced in mice by repeated immunizations raised against purified recombinant TRAP1.
Purity/Specificity:	Anti-Trap-1 Antibody was purified by Protein G chromatography. This monoclonal antibody is specific for human Trap-1 protein. A BLAST analysis was used to suggest cross-reactivity with Trap-1 from human based on 100% homology with the immunizing sequence. Cross-reactivity with Trap-1 from other sources has not been determined. Heat Shock research.
Relevant Links:	• NCBI - NP_057376.2 • GeneID - 10131 • UniProtKB - Q12931

Application Details

Tested Applications:	IF, WB
Application Note:	Anti-Trap-1 Antibody is tested for use in IF and WB. Expect a band approximately ~75kDa corresponding to specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	User Optimized
WB:	User Optimized

Formulation

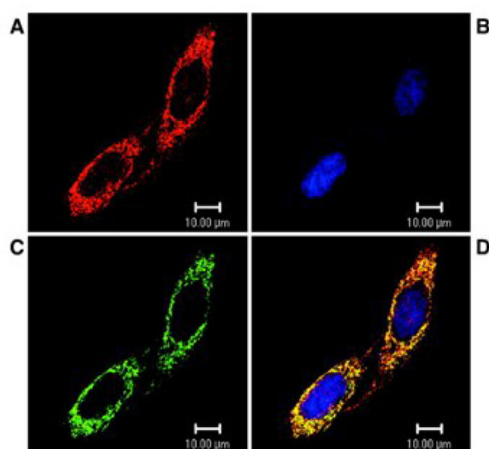
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer:	50% (v/v) Glycerol

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.

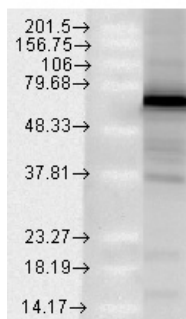
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy

Immunofluorescence of mouse anti-Trap1 antibody. Tissue: PC-3-M cells. Primary Antibody: Trap1 antibody at 1 µg/mL for 1h at RT. Secondary antibody: (A) staining of Mitochondria with Mito Tracker dye; (B) stainign of nuclei with DAPI; (C) IF of monoclonal antibody to TRAP1; (D) tricolor composite of images A-C. Primary Antibody: TRAP1 at 1:10,000 for 45 min at RT. Localization: Mitochondria. Staining: TRAP1 as green signal.



Western Blot

Western Blot of mouse anti-TRAP1 antibody. Lane 1: Heat Shocked HeLa cells. Primary antibody: TRAP1 antibody at 1:1000 for overnight at 4°C. Secondary antibody: Goat anti-mouse IgG HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% Blotto overnight 4°C. Predicted/Observed size: 80kDa/75kD. Other band(s): none.

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.