

**Datasheet for 600-401-FL5****TOCA-1 Antibody****Overview**

<b>Description:</b>	Anti-TOCA-1 (RABBIT) Antibody - 600-401-FL5
<b>Item No.:</b>	600-401-FL5
<b>Size:</b>	100 µg
<b>Applications:</b>	ELISA, IF, IHC, WB
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host Species:</b>	Rabbit

**Product Details**

<b>Background:</b>	Actin reorganization is important for the regulation of neuronal morphology. A protein involved in this process, the transducer of cdc42-dependent actin assembly 1 (TOCA-1) protein, a member of the evolutionarily conserved pombe CDC15 homology (PCH) protein family, is an essential component of the Cdc42 pathway. TOCA-1 binds both N-WASP and Cdc42 and is essential for Cdc42- and PIP2-induced actin polymerization, suggesting that TOCA-1 mediates Cdc42-dependent actin nucleation by activating the N-WASP-WIP complex. Decreased expression of TOCA-1 significantly enhances neurite elongation in PC-12 cells; its overexpression in the same cells suppresses neurite elongation. It has been suggested that TOCA-1 negatively regulates axon branching by regulating membrane trafficking by regulating membrane trafficking through the F-BAR/EFC domain. Multiple isoforms of TOCA-1 are known to exist.
<b>Synonyms:</b>	TOCA-1 Antibody, TOCA1, C1orf39, TOCA1, Formin-binding protein 1-like, Transducer of Cdc42-dependent actin assembly protein 1, Toca-1
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

**Target Details**

<b>Gene Name:</b>	FNBP1L
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Immunogen Type:</b>	Conjugated Peptide

<b>Immunogen:</b>	Anti-TOCA-1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide near the N-terminus of the human TOCA-1.
<b>Purity/Specificity:</b>	Anti-TOCA-1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with TOCA-1 from other sources has not been determined.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - Q5T0N5</a></li><li>• <a href="#">GeneID - 54874</a></li><li>• <a href="#">NCBI - NP_001020119.1</a></li></ul>

## Application Details

<b>Tested Applications:</b>	ELISA, IF, IHC, WB
<b>Application Note:</b>	Anti-TOCA-1 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 70 kDa in Western Blots of specific cell lysates and tissues.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:5,000
<b>IF:</b>	20 µg/mL
<b>IHC:</b>	2.5 µg/mL
<b>WB:</b>	0.5 µg/mL

## Formulation

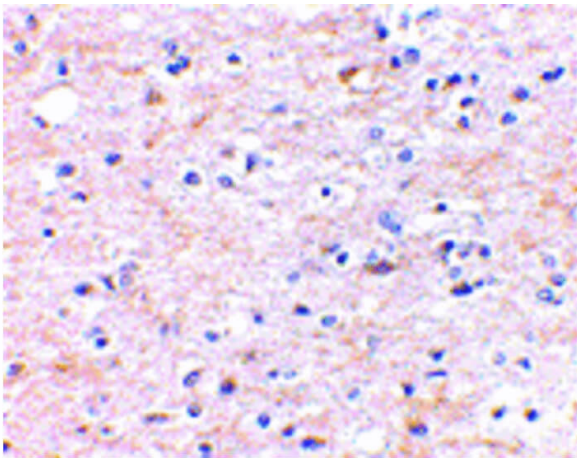
<b>Physical State:</b>	Liquid (sterile filtered)
<b>Concentration:</b>	1mg/ml by UV absorbance at 280 nm
<b>Buffer:</b>	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	0.02% (w/v) Sodium Azide
<b>Stabilizer:</b>	None

## Shipping & Handling

<b>Shipping Condition:</b>	Dry Ice
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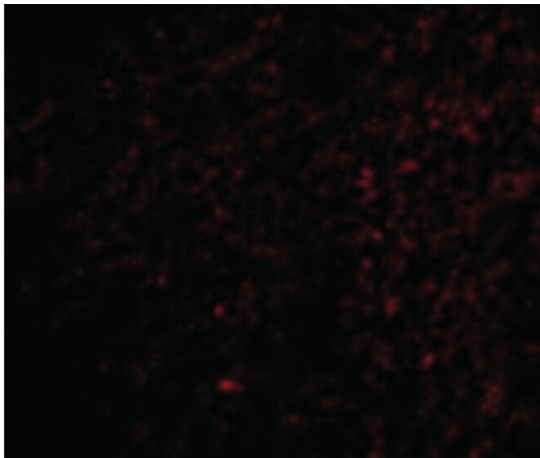
<b>Storage Condition:</b>	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

## Images



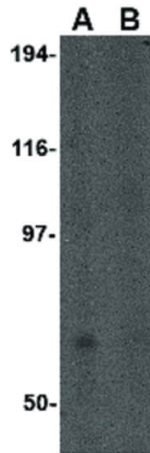
### Immunohistochemistry

Immunohistochemistry of TOCA-1 antibody. Tissue: Human brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: TOCA-1 antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: TOCA-1 is nuclear and occasionally cytoplasmic. Staining: TOCA-1 as precipitated red signal with hematoxylin purple nuclear counterstain.



### Immunofluorescence Microscopy

Immunofluorescence Microscopy of TOCA-1 antibody. Tissue: Human brain cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: TOCA-1 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: TOCA-1 as a red fluorescent signal.

**Western Blot**

Western Blot of TOCA-1 antibody. Lane A: Human brain tissue lysate in the absence of blocking peptide. Lane B: Human brain tissue lysate in the presence of blocking peptide. Load: 35  $\mu$ g per lane. Primary Antibody: Anti-TOCA-1 at 0.5  $\mu$ g/mL. 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: 30.3 kDa, ~65 kDa for TOCA-1.

**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.