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Datasheet for 600-401-FS8

TWA1 Antibody

Overview

Description:	Anti-TWA1 (RABBIT) Antibody - 600-401-FS8
Item No.:	600-401-FS8
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	TWA1 was identified through a two hybrid-associated protein screen with RanBPM. TWA1 is well conserved through evolution and is localized within the nucleus. It interacts with RanBP9 and comprises a protein complex with RanBPM and Muskelin. TWA1 was found to possess the LisH-CTLH motif which is detected in proteins involved in microtubule dynamics, cell migration, nucleokinesis and chromosome segregation. These functions overlap with functions suggested for the RanGTPase cycle. Recent findings suggested that there is an as yet uncovered function of the RanGTPase cycle.
Synonyms:	TWA1 Antibody, C20orf11, Glucose-induced degradation protein 8 homolog, Two hybrid-associated protein 1 with RanBPM, Twa1, GID8
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	GID8
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-TWA1 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide near the C-terminus of human TWA1.

Purity/Specificity:	Anti-TWA1 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with TWA1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9NWU2 • GeneID - 54994 • NCBI - NP_060366.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-TWA1 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 27 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
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	1 µg/mL

Formulation

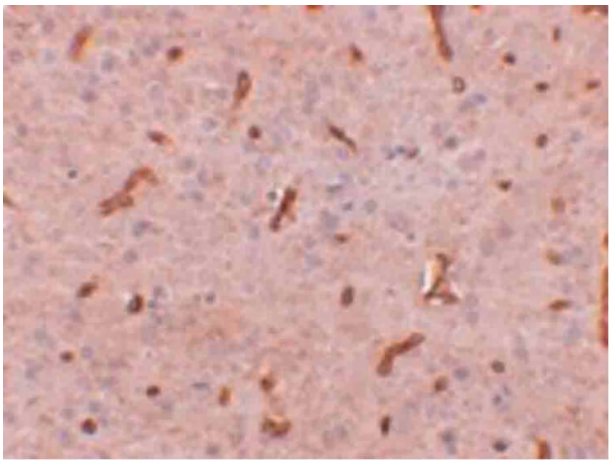
Physical State:	Liquid (sterile filtered)
Concentration:	1.0mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

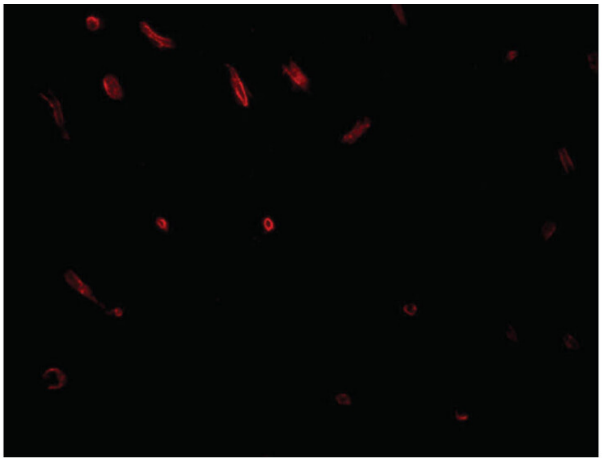
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several 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.

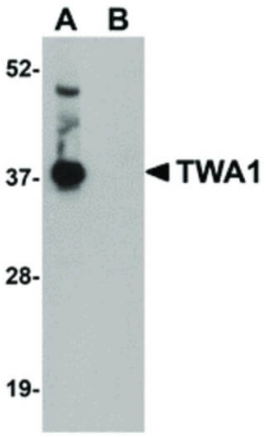
Images



Immunohistochemistry
Immunohistochemistry of TWA1 antibody. Tissue: rat brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: TWA1 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: TWA1 is nuclear and cytoplasmic. Staining: TWA1 as precipitated pink signal with blue nuclear counterstain.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of TWA1 antibody. Tissue: rat brain tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: TWA1 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. Localization: TWA1 is nuclear and cytoplasmic. Staining: TWA1 as red fluorescent signal.



Western Blot

Western Blot of TWA1 antibody. Lane 1: human brain tissue lysate in the absence of blocking peptide. Lane 2: human brain tissue lysate in the presence of blocking peptide. Primary Antibody: Anti-TWA1 antibody at 1 µg/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: 27 kDa, 37 kDa for TWA1.

Disclaimer

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