Order online now!

www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 600-401-DG8

op18 Antibody

Overview

Description:	Anti-op18 (RABBIT) Antibody - 600-401-DG8
Item No.:	600-401-DG8
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Op18 belongs to the stathmin family of genes and encodes a ubiquitous cytosolic phosphoprotein that may function as an intracellular relay integrating several signaling pathways such as those involved in cell proliferation and differentiation. Op18 has also been shown to be involved in the regulation of the microtubule filament system by destabilizing microtubules, thereby preventing assembly and promoting the disassembly of microtubules. More recently, op18 has been implicated as a potential target of the ASK1-p38 MAP kinase cascade, suggesting that the ASK1-p38 cascade may regulate microtubule dynamics through op18. Op18 is highly expressed in a wide variety of human malignancies, including leukemia, prostate cancer, ovarian carcinoma, and breast carcinoma, suggesting that op18 may be an ideal target for anti-cancer therapeutics.
Synonyms:	op18 Antibody, Lag, SMN, OP18, PP17, PP19, PR22, LAP18, C1orf215, Stathmin, Leukemia-associated phosphoprotein p18, Op18
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	STMN1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Op18 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid synthetic peptide from near the N-terminus of human op18.
Purity/Specificity:	Anti-op18 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with op18 from other sources has not been determined.
Relevant Links:	• UniProtKB - P16949 • GeneID - 3925 • NCBI - AAH82228

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-op18 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 17 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:	1:5,000-1:10,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	.5-1 µg/mL

Formulation

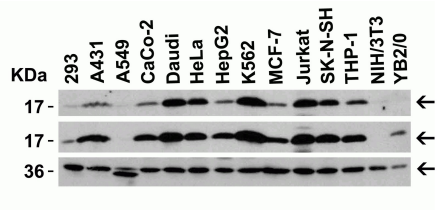
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

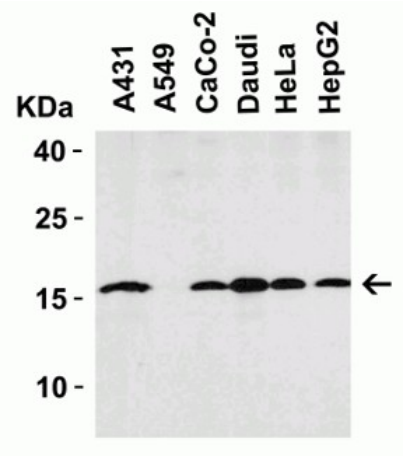
Shipping Condition:	Dry Ice

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.

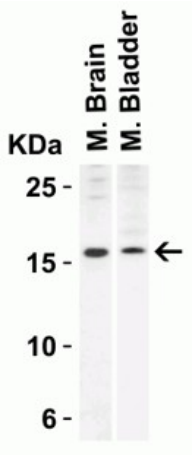
Images



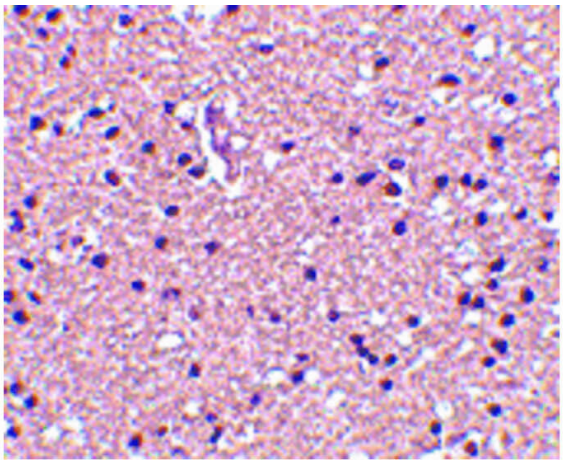
Western Blot
Western Blot using op18. Loading: 15 µg of lysates per lane. Antibodies: op18 p/n 600-401-DG7 (2 µg/mL), op18 p/n 600-401-DG8 (2 µg /mL), and GAPDH (0.02 µg /mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



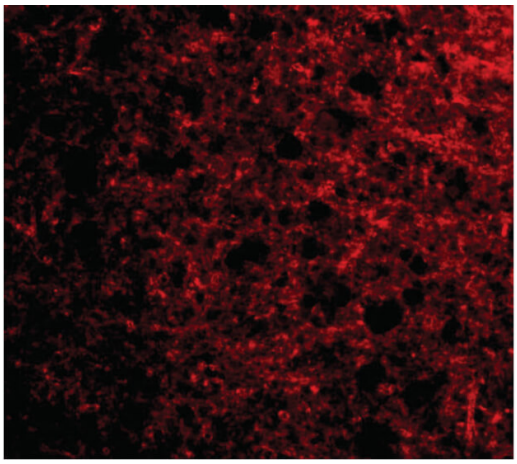
Western Blot
Western Blot Validation. Loading: 15 µg of human cell lysates per lane. Antibodies: op18 (2 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



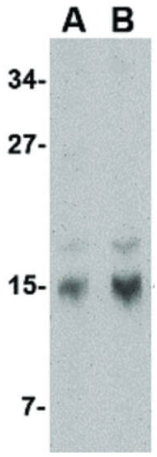
Western Blot
Western Blot Validation, Loading: 15 µg of mouse tissue lysates per lane. Antibodies: op18 (2µg /mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunohistochemistry
Immunohistochemistry of op18 antibody. Tissue: Human brain tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: op18 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: op18 is nuclear and occasionally cytoplasmic. Staining: op18 as precipitated red signal with hematoxylin purple nuclear counterstain.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of op18 antibody. Tissue: Human brain tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: op18 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: op18 as a red fluorescent signal.



Western Blot

Western Blot of op18 antibody. Lane A: Human brain tissue lysate at 0.5 µg/mL. Lane B: Human brain tissue lysate at 1 µg/mL. Load: 35 µg per lane. 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 17.3 kDa, ~16 kDa for op18. Other band(s): op18 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.