

Datasheet for 600-401-BM3**GOLPH2 Antibody****Overview**

Description:	Anti-GOLPH2 (RABBIT) Antibody - 600-401-BM3
Item No.:	600-401-BM3
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	GOLPH2, also known as GOLM1, is a Golgi phosphoprotein that has a short cytoplasmic N-terminal domain, a membrane spanning region, and a longer C-terminal domain. It was initially identified as a possible marker for Alzheimer's disease, although later studies have demonstrated that the GOLPH2 gene does not contribute to risk of this disease. GOLPH2 expression has been reported higher in prostate cancer tissues compared to normal prostate tissue, suggesting that GOLPH2 can be used as an additional positive marker for tissue-based diagnosis of prostate cancer. It has been suggested that GOLPH2 expression in hepatocellular carcinomas (HCCs) and serum may also serve as tumor markers for HCCs.
Synonyms:	GOLPH2 Antibody, GP73, HEL46, GOLPH2, C9orf155, PSEC0257, bA379P1.3, PSEC0242, UNQ686/PRO1326, Golgi membrane protein 1, Golgi membrane protein GP73
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	GOLM1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-GOLPH2 antibody was prepared from whole rabbit serum produced by repeated immunizations with an 18 amino acid synthetic peptide from near the internal region of human GOLPH2.
Purity/Specificity:	Anti-GOLPH2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with GOLPH2 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q8NBJ4 • GeneID - 51280 • NCBI - EAW62705

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-GOLPH2 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 45 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:	1:2500 - 1:5000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	0.25-0.5 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 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

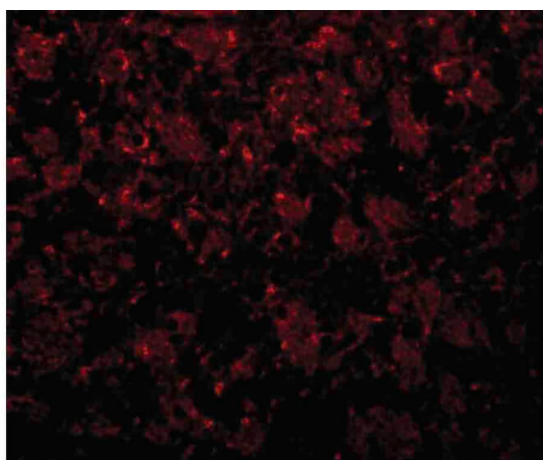
Shipping & Handling

Shipping Condition:	Dry Ice
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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



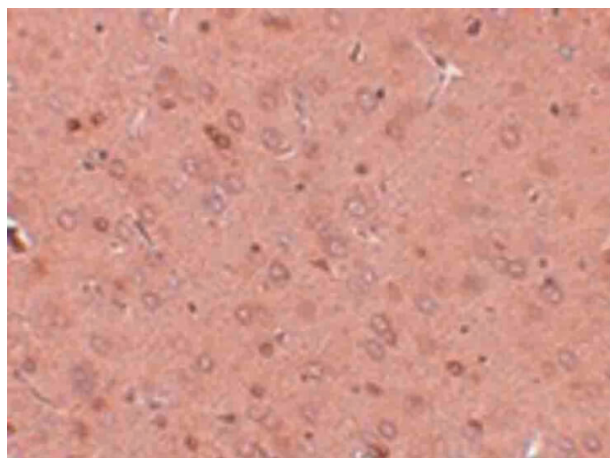
Immunofluorescence Microscopy

Immunofluorescence Microscopy of GOLPH2 antibody.

Tissue: rat brain tissue. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: GOLPH2 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: GOLPH2 is localized in the cis-Golgi membrane.

Staining: GOLPH2 as red fluorescent signal.

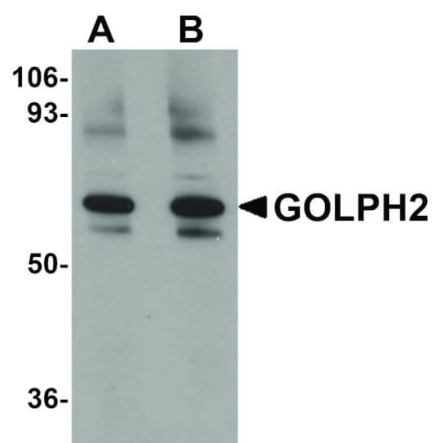


Immunohistochemistry

Immunohistochemistry of GOLPH2 antibody. Tissue: rat brain tissue. Fixation: formalin fixed paraffin embedded.

Antigen retrieval: not required. Primary antibody: GOLPH2 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: GOLPH2 is localized in the cis-Golgi membrane.

Staining: GOLPH2 as precipitated brown signal with purple nuclear counterstain.



Western Blot

Western Blot of GOLPH2 antibody. Lane 1: Rat brain tissue lysate with GOLPH2 antibody at 0.25 $\mu\text{g/mL}$. Lane 2: Rat brain tissue lysate with GOLPH2 antibody at 0.50 $\mu\text{g/mL}$. 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: 45 kDa, 60 kDa for GOLPH2. Other band(s): GOLPH2 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.