

For Research Use Only

# TRAPPC4 Polyclonal antibody

Catalog Number: 12074-1-AP



## Basic Information

<b>Catalog Number:</b> 12074-1-AP	<b>GenBank Accession Number:</b> BC010866	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 300 µg/ml by Nanodrop and 200 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 51399	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
<b>Source:</b> Rabbit	<b>Full Name:</b> trafficking protein particle complex 4	<b>IHC 1:500-1:2000</b> <b>IF 1:200-1:800</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 219 aa, 24 kDa	
<b>Immunogen Catalog Number:</b> AG2737	<b>Observed MW:</b> 24-27 kDa	

## Applications

**Tested Applications:**  
IF, IHC, IP, WB, ELISA

**Species Specificity:**  
human, mouse, rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** HL-60 cells, mouse testis tissue, rat testis tissue

**IP :** HL-60 cells,

**IHC :** human colon cancer tissue,

**IF :** HeLa cells,

## Background Information

Transport protein particle (TRAPP, also known as trafficking protein particle), a multimeric guanine nucleotide-exchange factor, regulates multiple membrane trafficking pathways (PMID: 20966969). TRAPPC4, also known as synbindin, is a core component of the TRAPP complexes and one of the essential subunits for guanine nucleotide exchange factor activity for Rab1 GTPase (PMID: 31794024). Deficiencies in vesicular transport mediated by TRAPPC4 have been associated with severe syndromic intellectual disability (PMID: 31794024).

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

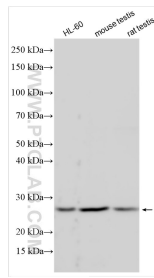
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

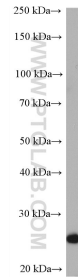
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

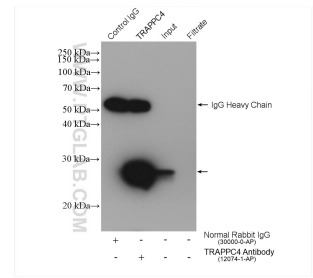
## Selected Validation Data



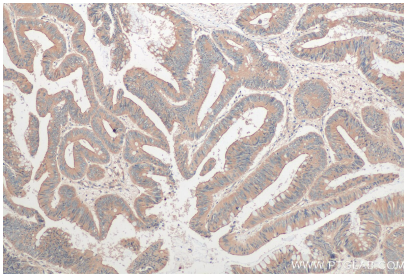
Various lysates were subjected to SDS PAGE followed by western blot with 12074-1-AP (TRAPPC4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



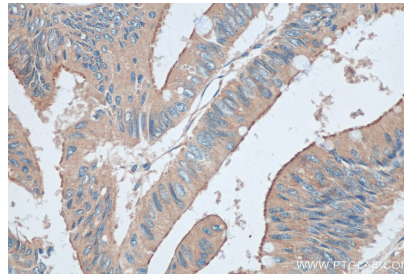
HL-60 cells were subjected to SDS PAGE followed by western blot with 12074-1-AP (TRAPPC4 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



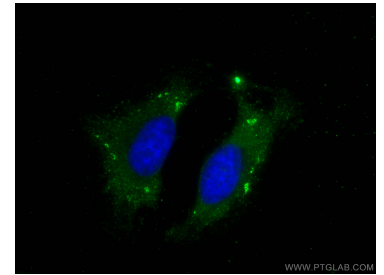
IP result of anti-TRAPPC4(IP:12074-1-AP, 4ug; Detection:12074-1-AP 1:800) with HL-60 cells lysate 1720 ug.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 12074-1-AP (TRAPPC4 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 12074-1-AP (TRAPPC4 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using TRAPPC4 antibody (12074-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).