

# TRAPPC4 Polyclonal antibody

Catalog Number: 12074-1-AP

## Basic Information

**Catalog Number:**

12074-1-AP

**Size:**

300 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG2737

**GenBank Accession Number:**

BC010866

**GeneID (NCBI):**

51399

**UNIPROT ID:**

Q9Y296

**Full Name:**

trafficking protein particle complex 4

**Calculated MW:**

219 aa, 24 kDa

**Observed MW:**

24-27 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:4000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

IF/ICC 1:200-1:800

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, 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/ICC : 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:**

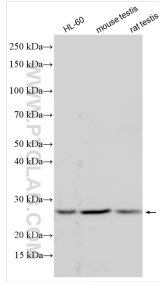
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

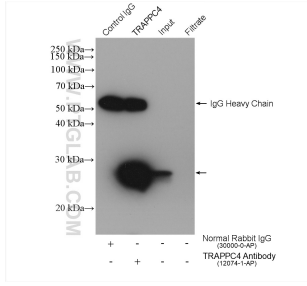
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

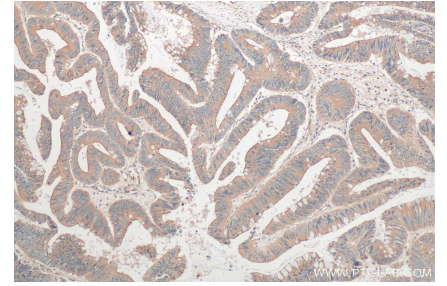
## Selected Validation Data



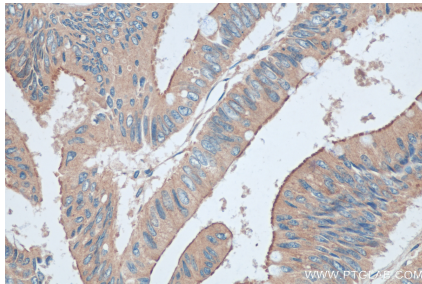
Various lysates were subjected to SDS PAGE followed by western blot with 12074-1-AP (TRAPPC4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



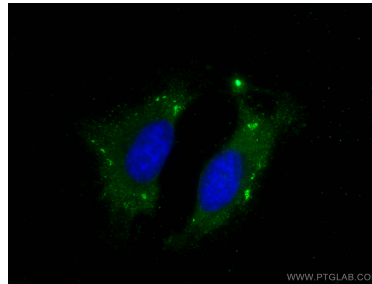
IP result of anti-TRAPPC4 (IP:12074-1-AP, 4ug; Detection:12074-1-AP 1:800) with HL-60 cells lysate 1720 ug.



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).