

For Research Use Only

TRAPPC4 Polyclonal antibody

Catalog Number: 12074-1-AP

Featured Product



Basic Information

Catalog Number:

12074-1-AP

Size:

150ul, Concentration: 300 ug/ml by Nanodrop and 200 ug/ml by Bradford method using BSA as the standard;

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 ug 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, MCF-7 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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

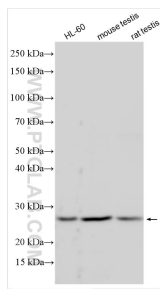
For technical support and original validation data for this product please contact:

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

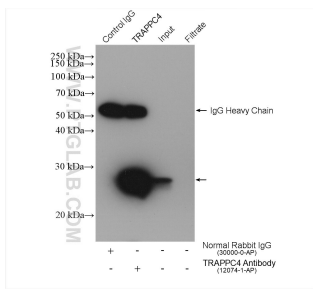
E: proteintech@ptglab.com
W: ptglab.com

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

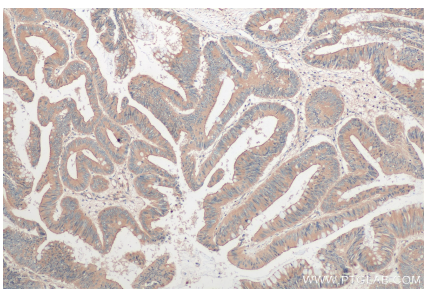
Selected Validation Data



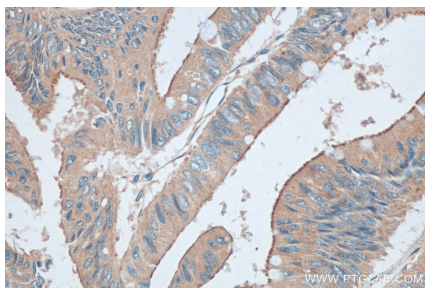
Various lysates were subjected to SDS PAGE followed by western blot with 12074-1-AP (TRAPPC4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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



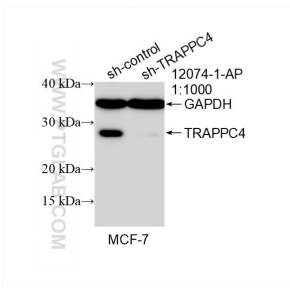
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 12074-1-AP (TRAPPC4 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



WB result of TRAPPC4 antibody (12074-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TRAPPC4 transfected MCF-7 cells.