

For Research Use Only

# TRAK2 Polyclonal antibody

Catalog Number: 13770-1-AP

4 Publications



## Basic Information

### Catalog Number:

13770-1-AP

### Size:

150ul, Concentration: 750 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4753

### GenBank Accession Number:

BC040668

### GeneID (NCBI):

66008

### UNIPROT ID:

O60296

### Full Name:

trafficking protein, kinesin binding 2

### Calculated MW:

914 aa, 101 kDa

### Observed MW:

101-106 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

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

IHC 1:20-1:200

IF/ICC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, rat

### Cited Species:

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 : human liver tissue,

IP : HepG2 cells,

IHC : human liver cancer tissue,

IF/ICC : HeLa cells,

## Background Information

Trafficking kinesin-binding protein 2 (TRAK2) is a member of the TRAK family of kinesin adaptor proteins. In mammals, there are two members of the TRAK family, TRAK1 and TRAK2 (PMID: 25653102). TRAK1 and TRAK2 play roles in lysosomal and mitochondrial trafficking in cells. They function as kinesin adaptors linking kinesin heavy chain (KHC) to mitochondria (PMID: 28364549). TRAK2 has been found to act as a trafficking factor for the K<sup>+</sup> channel Kir2.1 and  $\gamma$ -Aminobutyric acid type A (GABAA) receptor (PMID: 16895905; 24122114).

## Notable Publications

Author	Pubmed ID	Journal	Application
Katarzyna Majstrowicz	34013964	J Cell Sci	WB
Haifeng Zhang	32439493	Exp Cell Res	WB
Karolina Drabik	33960016	FASEB J	WB

## 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

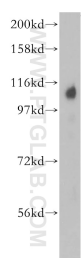
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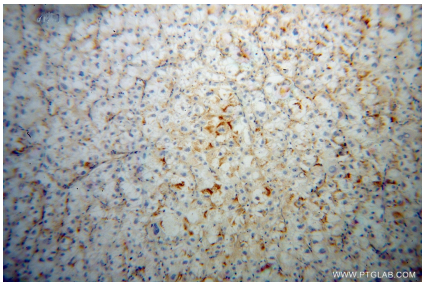
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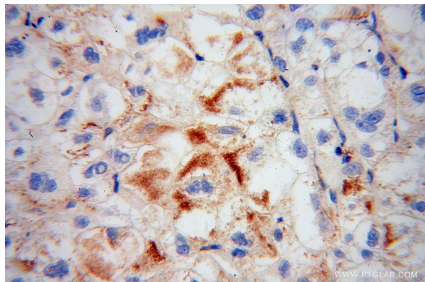
Selected Validation Data



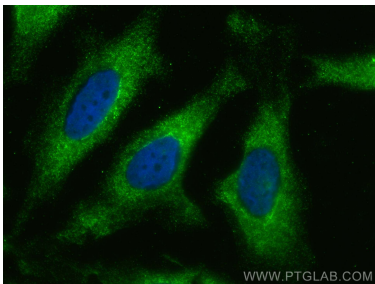
human liver tissue were subjected to SDS PAGE followed by western blot with 13770-1-AP (TRAK2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



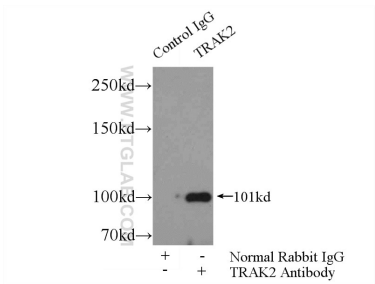
Immunohistochemical analysis of paraffin-embedded human liver cancer using 13770-1-AP (TRAK2 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human liver cancer using 13770-1-AP (TRAK2 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using TRAK2 antibody (13770-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-TRAK2 (IP:13770-1-AP, 4ug; Detection:13770-1-AP 1:500) with HepG2 cells lysate 4000ug.