

For Research Use Only

TRAK2 Polyclonal antibody

Catalog Number: 13770-1-AP **4 Publications**



Basic Information

| | | |
|--|---|--|
| Catalog Number: 13770-1-AP | GenBank Accession Number: BC040668 | Purification Method: Antigen affinity purification |
| Size: 750 µg/ml | GeneID (NCBI): 66008 | Recommended Dilutions: WB 1:500-1:1000 |
| Source: Rabbit | UNIPROT ID: O60296 | IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate |
| Isotype: IgG | Full Name: trafficking protein, kinesin binding 2 | IHC 1:20-1:200 IF 1:50-1:500 |
| Immunogen Catalog Number: AG4753 | Calculated MW: 914 aa, 101 kDa | |
| | Observed MW: 101-106 kDa | |

Applications

| | |
|---|--|
| Tested Applications: IF/ICC, IHC, IP, WB, ELISA | Positive Controls: |
| Cited Applications: WB | WB: human liver tissue, |
| Species Specificity: human, mouse, rat | IP: HepG2 cells, |
| Cited Species: human, rat, mouse | IHC: human liver cancer tissue, |
| | IF: HeLa cells, |

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

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⁺ channel Kir2.1 and γ -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

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

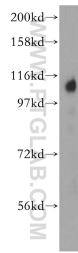
T: 4006900926

E: Proteintech-CN@ptglab.com

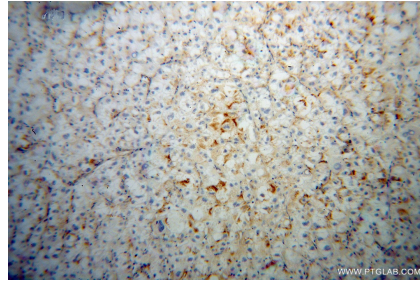
W: ptgcn.com

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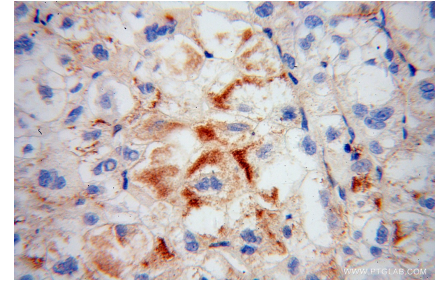
Selected Validation Data



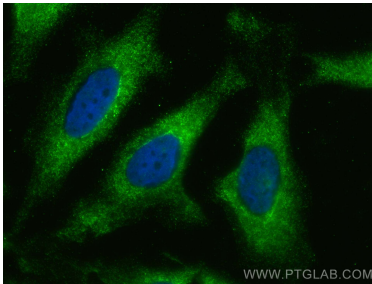
human liver tissue were subjected to SDS PAGE followed by western blot with 13770-1-AP (TRAK2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



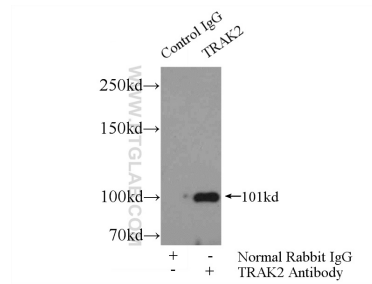
Immunohistochemical analysis of paraffin-embedded human liver cancer using 13770-1-AP (TRAK2 antibody) at dilution of 1:100 (under 10x lens).



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.