

For Research Use Only

GTPBP4 Polyclonal antibody

Catalog Number: 13897-1-AP

Featured Product

5 Publications



Basic Information

| | | |
|---|--|---|
| Catalog Number: 13897-1-AP | GenBank Accession Number: BC038975 | Purification Method: Antigen affinity purification |
| Size: 150ul, Concentration: 550 µg/ml by Nanodrop and 367 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 23560 | Recommended Dilutions: WB 1:2000-1:8000 IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB |
| Source: Rabbit | Full Name: GTP binding protein 4 | IF 1:50-1:500 |
| Isotype: IgG | Calculated MW: 634 aa, 74 kDa | |
| Immunogen Catalog Number: AG4859 | Observed MW: 74 kDa | |

Applications

| | |
|---|--|
| Tested Applications: IF, IP, WB, ELISA | Positive Controls: WB: HeLa cells, HepG2 cells, mouse testis tissue, human kidney tissue |
| Cited Applications: IF, IHC, WB | IP: mouse testis tissue, |
| Species Specificity: human, mouse | IF: HeLa cells, |
| Cited Species: Drosophila, human, mouse | |

Background Information

GTP-binding proteins are GTPases and function as molecular switches that can flip between two states: active, when GTP is bound, and inactive, when GDP is bound. 'Active' in this context usually means that the molecule acts as a signal to trigger other events in the cell. When an extracellular ligand binds to a G-protein-linked receptor, the receptor changes its conformation and switches on the trimeric G proteins that associate with it by causing them to eject their GDP and replace it with GTP. The switch is turned off when the G protein hydrolyzes its own bound GTP, converting it back to GDP. But before that occurs, the active protein has an opportunity to diffuse away from the receptor and deliver its message for a prolonged period to its downstream target.

Notable Publications

| Author | Pubmed ID | Journal | Application |
|----------------|-----------|----------------------------|-------------|
| Zhiqian Zhang | 33134380 | Biomed Res Int | WB |
| Haitao Yu | 27720713 | Biochem Biophys Res Commun | WB, IHC |
| Andrew J Finch | 21536732 | Genes Dev | WB |

Storage

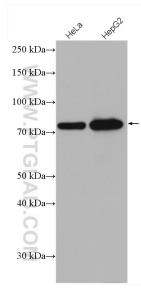
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

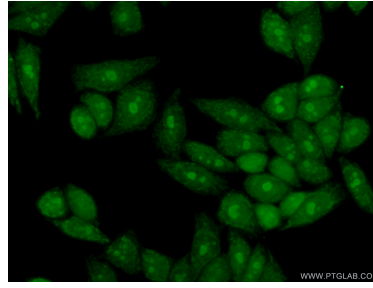
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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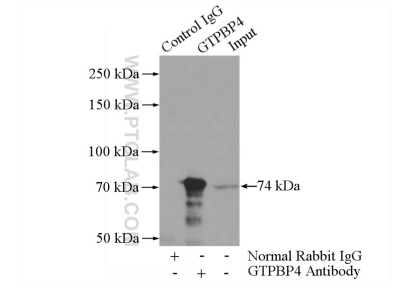
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 13897-1-AP (GTPBP4 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 13897-1-AP (GTPBP4 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP Result of anti-GTPBP4 (IP:13897-1-AP, 4ug; Detection:13897-1-AP 1:800) with mouse testis tissue lysate 4000ug.