abcam

# ab177961

# Anti-TIP30 antibody [EPR13179]

Recombinant | RabMAb

## Key facts

| | |
|---|---|
| **Isotype** | IgG |
| **Host species** | Rabbit |
| **Storage buffer** | pH: 7.2 - 7.4 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |
| **Form** | Liquid |
| **Clonality** | Monoclonal |
| **Immunogen** | The exact immunogen used to generate this antibody is proprietary information. |
| **Clone number** | EPR13179 |
| **Purification technique** | Affinity purification Protein A |
| **Concentration** | 0.499 mg/mL The concentration of this product may be batch-dependent<br>Batch concentration finder → |

## Reactivity data

## IHC-P

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/50 - 1/100 |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | 1/50 - 1/100 |
| **Notes** | - |

| | |
|---|---|
| **Species** | Rat |
| **Dilution info** | 1/50 - 1/100 |
| **Notes** | - |

## IP

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/10 - 1/100 |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | 1/10 - 1/100 |
| **Notes** | - |

| | |
|---|---|
| **Species** | Rat |
| **Dilution info** | 1/10 - 1/100 |
| **Notes** | - |

## WB

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/1000 - 1/10000 |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | 1/1000 - 1/10000 |
| **Notes** | - |

| | |
|---|---|
| **Species** | Rat |
| **Dilution info** | 1/1000 - 1/10000 |
| **Notes** | - |

## ICC/IF

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/50 - 1/100 |
| **Notes** | - |

### Expected

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | 1/50 - 1/100 |
| **Notes** | - |

| | |
|---|---|
| **Species** | Rat |
| **Dilution info** | 1/50 - 1/100 |
| **Notes** | - |

## Flow Cyt (Intra)

### Tested

| | |
|---|---|
| **Species** | Human |
| **Dilution info** | 1/10 - 1/100 |
| **Notes** | ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

### Expected

| | |
|---|---|
| **Species** | Mouse |
| **Dilution info** | 1/10 - 1/100 |
| **Notes** | ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

| | |
|---|---|
| **Species** | Rat |
| **Dilution info** | 1/10 - 1/100 |
| **Notes** | ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

## Target data

See full target information HTATIP2

| | |
|---|---|
| **Function** | Represses translation by preventing reactivation of elongation factor eEF1A (By similarity). May also inhibit nuclear import by competing with nuclear import substrates for binding to a subset of nuclear transport receptors (PubMed:15282309). Has additionally been proposed to act as a redox sensor involved in cellular oxidative stress surveillance (PubMed:18519672). |

## Storage

| | |
|---|---|
| **Shipped at conditions** | Conditional Ambient |
| **Appropriate short-term storage duration** | 1-2 weeks |
| **Appropriate short-term storage conditions** | +4°C |
| **Appropriate long-term storage conditions** | -20°C |
| **Aliquoting information** | Upon delivery aliquot |
| **Storage information** | Avoid freeze / thaw cycle |

## Notes

**Patented technology**
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

**What are the advantages of a recombinant monoclonal antibody?**
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

## Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

| | |
|---|---|
| **Activity summary** | TIP30 also known as HTATIP2 is a tumor suppressor protein that plays an important role in various cellular processes. It has a mass of approximately 30 kDa and is expressed in a range of human tissues including the liver lung and brain. TIP30 is an oxidoreductase and its activity involves the regulation of cellular responses to oxidative stress. It interacts with transcription factors and other proteins to modulate gene expression that is critical for cell growth and apoptosis. |
| **Biological function summary** | The TIP30 protein contributes to the regulation of gene transcription and the maintenance of cellular homeostasis. TIP30 is part of a complex that influences transcriptional activity by interacting with specific transcription factors. Its function suppresses oncogene activity and enhances the expression of genes that prevent tumor development. By controlling signaling pathways related to cell cycle and apoptosis TIP30 reinforces the protective mechanisms against cancer cell proliferation. |
| **Pathways** | TIP30 engages in important signaling pathways such as the PI3K/AKT pathway and the MAPK pathway where it acts to inhibit unwanted cell survival signals and tumorigenic processes. It interacts closely with proteins like AKT and ERK influencing their activity and ensuring appropriate responses to growth signals. TIP30 modulates cellular dynamics by regulating pathway fidelity which impacts cell survival proliferation and tumor suppression. |
| **Associated diseases and disorders** | TIP30 levels are notably altered in certain cancer types such as hepatocellular carcinoma and breast cancer. These disorders correlate with its role in inhibiting tumor progression. Proteins such as c-MYC and ERBB2 often show varied expression in relation to TIP30 suggesting significant links in pathways leading to tumor growth. By investigating TIP30 involvement in these conditions researchers hope to identify potential therapeutic avenues that could restore its tumor suppressor function and curb cancer development. |

## Product promise

**Tested**

We have tested this species and application combination and it works. It is covered by our product promise.

**Expected**

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

**Predicted**

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

**Not recommended**

We do not recommend this combination. It is not covered by our product promise.

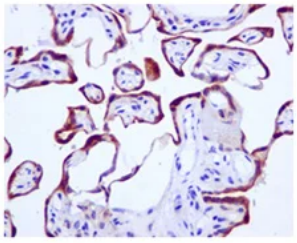
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In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

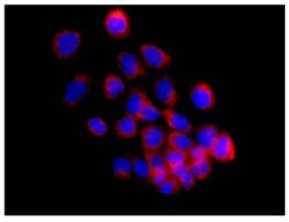
## 6 product images



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TIP30 antibody [EPR13179] (ab177961)

TIP30 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-TIP30 antibody

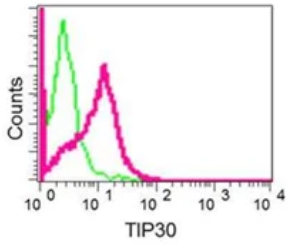
Immunohistochemical analysis of Human placenta tissue labeling TIP30 using ab177961 at 1/50 dilution.
Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.



### Immunocytochemistry/ Immunofluorescence - Anti-TIP30 antibody [EPR13179] (ab177961)

TIP30 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-TIP30 antibody

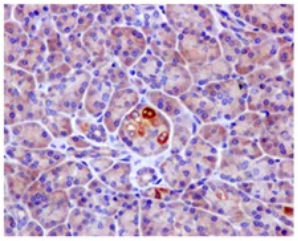
Immunofluorescence analysis of A431 cells labeling TIP30 using ab177961 at 1/50 dilution.




### Flow Cytometry (Intracellular) - Anti-TIP30 antibody [EPR13179] (ab177961)

TIP30 Flow Cytometry (Intracellular) staining using rabbit Anti-TIP30 antibody

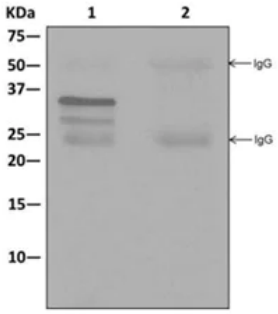
Intracellular flow cytometric analysis of permeabilized HeLa cells labeling TIP30 using ab177961 at 1/10 dilution (red) or a rabbit IgG (negative) (green).



## Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TIP30 antibody [EPR13179] (ab177961)

TIP30 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-TIP30 antibody

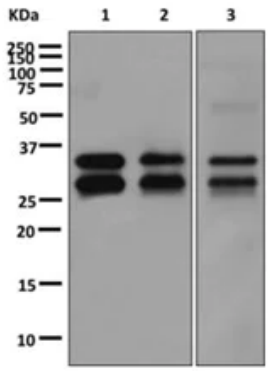
Immunohistochemical analysis of Human pancreas tissue labeling TIP30 using ab177961 at 1/50 dilution.
Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.




## Immunoprecipitation - Anti-TIP30 antibody [EPR13179] (ab177961)

Western blot analysis on immunoprecipitation pellet from (1) HeLa cell lysate or (2) 1XPBS (negative control) using ab177961 at 1/10 dilution to immunoprecipitate TIP30, and HRP-conjugated anti-rabbit IgG preferentially detecting the non-reduced form of rabbit IgG.
All lanes:
Immunoprecipitation - Anti-TIP30 antibody [EPR13179] (ab177961)

Predicted band size: 27 kDa




## Western blot - Anti-TIP30 antibody [EPR13179] (ab177961)

All lanes:
Western blot - Anti-TIP30 antibody [EPR13179] (ab177961) at 1/1000 dilution

Lane 1:
HeLa cell lysate at 10 µg

Lane 2:
A431 cell lysate at 10 µg

Lane 3:
Fetal liver lysate at 10 µg

Predicted band size: 27 kDa

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.