

# Anti-Beta TRCP Antibody

## HA500358



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human, Mouse, Rat
<b>Applications:</b>	WB, IF-Cell, IHC-P
<b>Molecular Wt:</b>	Predicted band size: 69 kDa

**Description:** F-box/WD repeat-containing protein 1A (FBXW1A) also known as  $\beta$ TrCP1 or Fbxw1 or hsSlimb or plkappaBalph-E3 receptor subunit is a protein that in humans is encoded by the BTRC (beta-transducin repeat containing) gene. This gene encodes a member of the F-box protein family which is characterized by an approximately 40 residue structural motif, the F-box. The F-box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (Skp1-Cul1-F-box protein), which often, but not always, recognize substrates in a phosphorylation-dependent manner. F-box proteins are divided into 3 classes: Fbxws containing WD40 repeats; Fbxls containing leucine-rich repeats; Fbxos containing either "other" protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene belongs to the Fbxw class as, in addition to an F-box, this protein contains multiple WD40 repeats. This protein is homologous to *Xenopus*  $\beta$ TrCP, yeast Met30, *Neurospora* Scon2 and *Drosophila* Slimb. In mammals, in addition to  $\beta$ TrCP1, a paralog protein (called  $\beta$ TrCP2 or FBXW11) also exists, but, so far, their functions appear redundant and indistinguishable.

**Immunogen:** Recombinant protein within Human Beta TRCP aa 1-200 / 605.

**Positive control:** HepG2 cell lysate, Hela cell lysate, 293T cell lysate, mouse testis tissue lysate, rat brain tissue lysate, mouse brain tissue lysate, A549, human colon tissue, mouse large intestine tissue.

**Subcellular location:** Cytoplasm, Nucleus.

**Database links:** SwissProt: Q9Y297 Human | Q3ULA2 Mouse  
Entrez Gene: 361765 Rat

**Recommended Dilutions:**

<b>WB</b>	1:1,000
<b>IF-Cell</b>	1:100
<b>IHC-P</b>	1:1,000-1:2,000

**Storage Buffer:** PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Immunogen affinity purified.

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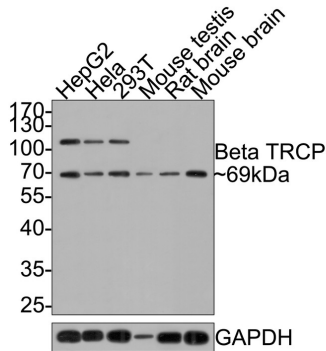
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## Images



**Fig1:** Western blot analysis of Beta TRCP on different lysates with Rabbit anti-Beta TRCP antibody (HA500358) at 1/1,000 dilution.

Lane 1: HepG2 cell lysate (10 µg/Lane)

Lane 2: HeLa cell lysate (10 µg/Lane)

Lane 3: 293T cell lysate (10 µg/Lane)

Lane 4: Mouse testis tissue lysate (20 µg/Lane)

Lane 5: Rat brain tissue lysate (20 µg/Lane)

Lane 6: Mouse brain tissue lysate (20 µg/Lane)

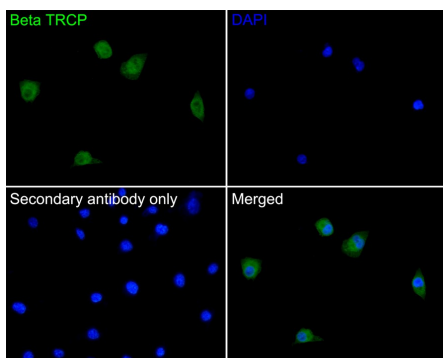
Predicted band size: 69 kDa

Observed band size: 69/110 kDa

Exposure time: 2 minutes;

10% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDN/TBST for 1 hour at room temperature. The primary antibody (HA500358) at 1/1,000 dilution was used in 5% NFDN/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:300,000 dilution was used for 1 hour at room temperature.



**Fig2:** Immunocytochemistry analysis of A549 cells labeling Beta TRCP with Rabbit anti-Beta TRCP antibody (HA500358) at 1/100 dilution.

Cells were fixed in 4% paraformaldehyde for 10 minutes at 37 °C, permeabilized with 0.05% Triton X-100 in PBS for 20 minutes, and then blocked with 2% negative goat serum for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-Beta TRCP antibody (HA500358) at 1/100 dilution in 2% negative goat serum overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

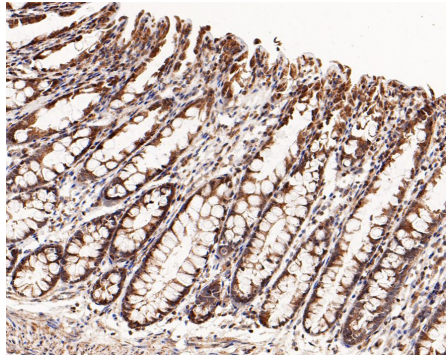
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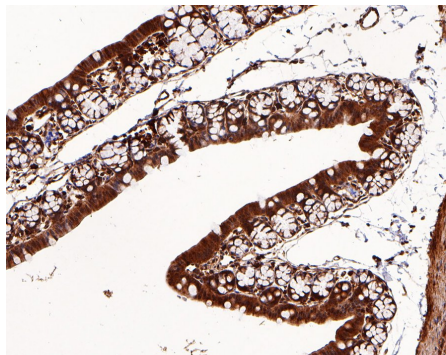
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**Fig3:** Immunohistochemical analysis of paraffin-embedded human colon tissue with Rabbit anti-Beta TRCP antibody (HA500358) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA500358) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



**Fig4:** Immunohistochemical analysis of paraffin-embedded mouse large intestine tissue with Rabbit anti-Beta TRCP antibody (HA500358) at 1/2,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) (high pressure) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (HA500358) at 1/2,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### Background References

1. Zhou DD et al. miR-193a-3p Promotes the Invasion, Migration, and Mesenchymal Transition in Glioma through Regulating BTRC. *Biomed Res Int.* 2021 Feb
2. Guo W et al. The circular RNA FAM169A functions as a competitive endogenous RNA and regulates intervertebral disc degeneration by targeting miR-583 and BTRC. *Cell Death Dis.* 2020 May

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