

# Anti-ATG4B Antibody [JE59-97]

HA721334



|                            |   |
|----------------------------|---|
| <b>Product Type:</b>       | Recombinant Rabbit monoclonal IgG, primary antibodies |
| <b>Species reactivity:</b> | Human, Mouse, Rat, Monkey                             |
| <b>Applications:</b>       | WB  |
| <b>Molecular Wt:</b>       | Predicted band size: 44 kDa                           |
| <b>Clone number:</b>       | JE59-97   |

**Description:** Cysteine protease ATG4B is an enzyme that in humans is encoded by the ATG4B gene. Autophagy is the process by which endogenous proteins and damaged organelles are destroyed intracellularly. Autophagy is postulated to be essential for cell homeostasis and cell remodeling during differentiation, metamorphosis, non-apoptotic cell death, and aging. Reduced levels of autophagy have been described in some malignant tumors, and a role for autophagy in controlling the unregulated cell growth linked to cancer has been proposed. This gene encodes a member of the autophagin protein family. The encoded protein is also designated as a member of the C-54 family of cysteine proteases. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. One main function of Atg4 is to cleave the pre-protein of Atg8, leading to the non-lipidated soluble (-I) form which can be processed further by Atg3, Atg7, Atg5-12 into the lipidated form (-II) anchored to the autophagic membrane.

**Immunogen:** Recombinant protein within Human ATG4B aa 221-320 / 393.

**Positive control:** 293T cell lysate, MCF7 cell lysate, COS-1 cell lysate, NIH/3T3 cell lysate, PC-12 cell lysate, Mouse brain tissue lysate, Rat brain tissue lysate.

**Subcellular location:** Cytoplasm, cytosol, Cytoplasmic vesicle, autophagosome, Endoplasmic reticulum, Mitochondrion.

**Database links:** SwissProt: Q9Y4P1 Human | Q8BGE6 Mouse | Q62625 Rat

**Recommended Dilutions:**  
**WB** 1:5,000

**Storage Buffer:** 1\*TBS (pH7.4), 0.05% 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:** Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

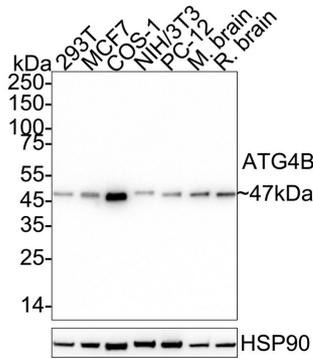
Service mail:support@huabio.cn

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## Images

**Fig1:** Western blot analysis of ATG4B on different lysates with Rabbit anti-ATG4B antibody (HA721334) at 1/5,000 dilution.

Lane 1: 293T cell lysate  
 Lane 2: MCF7 cell lysate  
 Lane 3: COS-1 cell lysate  
 Lane 4: NIH/3T3 cell lysate  
 Lane 5: PC-12 cell lysate  
 Lane 6: Mouse brain tissue lysate  
 Lane 7: Rat brain tissue lysate



Lysates/proteins at 20 µg/Lane.

Predicted band size: 44 kDa

Observed band size: 47 kDa

Exposure time: 20 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA721334) at 1/5,000 dilution was used in primary antibody dilution (K1803) at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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

### Background References

1. Yang G et al. Targeting Atg4B for cancer therapy: Chemical mediators. *Eur J Med Chem.* 2021 Jan
2. Park NY et al. Post-Translational Modifications of ATG4B in the Regulation of Autophagy. *Cells.* 2022 Apr

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