

Anti-AP-4 complex subunit epsilon Antibody

HA500446



Product Type: Rabbit polyclonal IgG, primary antibodies
Species reactivity: Arabidopsis thaliana
Applications: IF-Tissue, IHC-P, ELISA
Molecular Wt: 104 kDa

Description: Subunit of novel type of clathrin- or non-clathrin-associated protein coat involved in targeting proteins from the trans-Golgi network (TGN) to the endosomal-lysosomal system.

Immunogen: Synthetic peptide within ARATH AP-4 complex subunit epsilon aa 880-938 / 938.

Positive control: A. thaliana tissue.

Subcellular location: Trans-Golgi network, coated pit.

Database links: SwissProt: Q8L7A9 ARATH

Recommended Dilutions:

IF-Tissue	1:50-1:100
IHC-P	1:50-1:200
ELISA	1:10,000

Storage Buffer: 1*TBS (pH7.4), 0.2% BSA, 50% 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.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

 华安生物
HUABIO
www.huabio.cn

Images

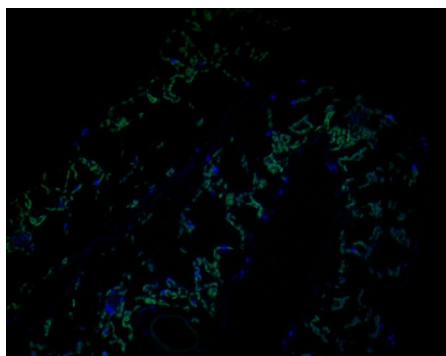


Fig1: Immunofluorescence staining of paraffin- embedded *A. thaliana* using anti-AP-4 complex subunit epsilon rabbit polyclonal antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS, and then probed with AP-4 complex subunit epsilon antibody at 1/50 dilution for 10 hours at 4°C and detected using Alexa Fluor® 488 conjugate-Goat anti-Rabbit IgG (H+L) Secondary Antibody at a dilution of 1:500 for 1 hour at room temperature.

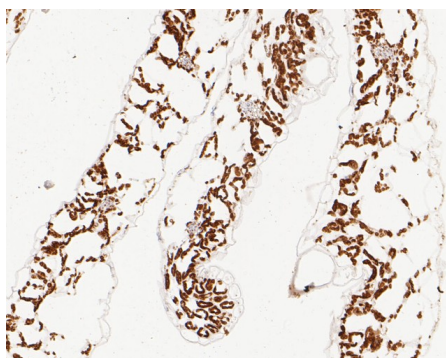


Fig2: Immunohistochemical analysis of paraffin-embedded *A. thaliana* tissue using anti-AP-4 complex subunit epsilon antibody. The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 5% BSA for 30 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (HA500446, 1/50) for 30 minutes 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. Ivankovic D. et. al. Axonal autophagosome maturation defect through failure of ATG9A sorting underpins pathology in AP-4 deficiency syndrome. *Autophagy*. 2019 May 29:1-17.
2. De Pace R. et. al. Altered distribution of ATG9A and accumulation of axonal aggregates in neurons from a mouse model of AP-4 deficiency syndrome. *PLoS Genet*. 2018 Apr 26;14(4):e1007363.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物
HUABIO
www.huabio.cn