

# Anti-AP-A Antibody [JE46-03]

ET7109-45



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB, IHC-P
<b>Molecular Wt:</b>	Predicted band size: 109 kDa.
<b>Clone number:</b>	JE46-03

**Description:** Regulates central hypertension through its calcium-modulated preference to cleave N-terminal acidic residues from peptides such as angiotensin II. ENPEP is considered to be an essential and highly specific enzyme, which metabolizes and inactivates bioactive peptides such as angiotensin II (AngII) in the renin-angiotensin system. ENPEP is expressed in neoplastic lesions of the uterine cervix, and its levels are upregulated as the lesions progress from cervical intraepithelial neoplasms to invasive squamous cell carcinomas. ENPEP expression is absent in normal cells and is overexpressed in cancer cell lines compared with normal cells of mammary origin.

**Immunogen:** Recombinant protein within Human AP-A aa 860-957 / 957.

**Positive control:** Human kidney tissue lysate, human small intestine tissue lysate, human kidney tissue, human small intestine tissue.

**Subcellular location:** Cell membrane, Membrane.

**Database links:** SwissProt: Q07075 Human

**Recommended Dilutions:**

<b>WB</b>	1:500-1:2,000
<b>IHC-P</b>	1:200-1:1,000

**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.

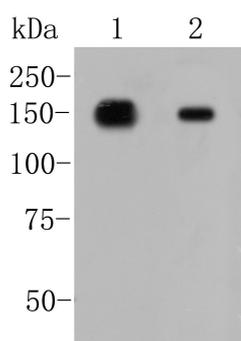
Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物  
HUABIO  
www.huabio.cn

## Images

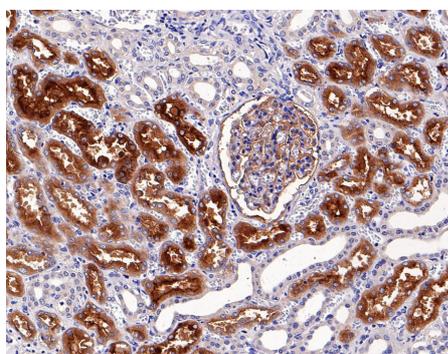


**Fig1:** Western blot analysis of AP-A on different lysates. Proteins were transferred to a PVDF membrane and blocked with 5% BSA in PBS for 1 hour at room temperature. The primary antibody (ET7109-45, 1/500) was used in 5% BSA at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1:5,000 dilution was used for 1 hour at room temperature.

**Positive control:**

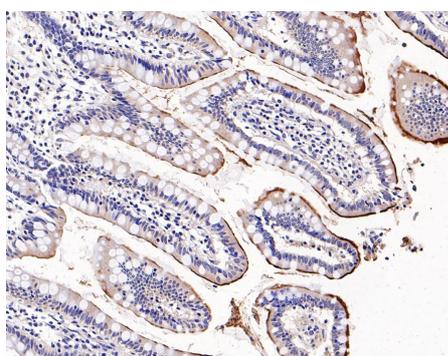
Lane 1: Human kidney tissue lysate

Lane 2: Human small intestine tissue lysate



**Fig2:** Immunohistochemical analysis of paraffin-embedded human kidney tissue with Rabbit anti-AP-A antibody (ET7109-45) at 1/200 dilution.

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 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (ET7109-45) at 1/200 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.



**Fig3:** Immunohistochemical analysis of paraffin-embedded human small intestine tissue with Rabbit anti-AP-A antibody (ET7109-45) at 1/1,000 dilution.

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 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (ET7109-45) 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.

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

---

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

---

### Background References

1. Yang Y et al. Structural insights into central hypertension regulation by human aminopeptidase A. *J Biol Chem* 288:25638-25645 (2013).
2. Ino K et al. Expression of aminopeptidase A in human gestational choriocarcinoma cell lines and tissues. *Placenta* 21:63-72 (2000).

**Hangzhou Huaan Biotechnology Co., Ltd.**

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

 华安生物  
HUAABIO  
www.huabio.cn