

# ATP1A2 Recombinant antibody

**Cat:**B36260S**Company:** HaoKebio**Uniprot ID:**P50993**Applications:** IHC:1:200-1:800**Organism:**Rabbit

IHC-Polymer:1:800-1:3200

**Species reactivity:**Human Mouse Rat

IHC-TSA:1:1000-1:4000

**Molecular Weight Calculation:** 1020 aa, 112 kDa

IF:1:50

**Observed Molecular Weight:** 97-100 kDa

WB:1:5000-1:50000

**Background:**

ATP1A2 (Na<sup>+</sup>/K<sup>+</sup>-ATPase  $\alpha$ -2 subunit) is the catalytic component of the active enzyme Na<sup>+</sup>/K<sup>+</sup>-ATPase, which catalyzes the hydrolysis of ATP coupled with the exchange of sodium and potassium ions across the plasma membrane. The Na<sup>+</sup>/K<sup>+</sup>-ATPase is composed of a larger catalytic  $\alpha$ -subunit (~110 kDa) and a small  $\beta$ -subunit (~55 kDa). The  $\alpha$  subunit has four isoforms identified to date:  $\alpha$ 1,  $\alpha$ 2,  $\alpha$ 3 and  $\alpha$ 4. The  $\alpha$ 1 isoform is expressed ubiquitously but the  $\alpha$ 2 isoform is present largely in the skeletal muscle, heart and vascular smooth muscle. The  $\alpha$ 3 isoform is found almost exclusively in neurons and ovaries. The  $\alpha$ 4 isoform is expressed in sperm. For optimal WB detection with ATP1A2, we do not recommend boiling the sample after lysis.

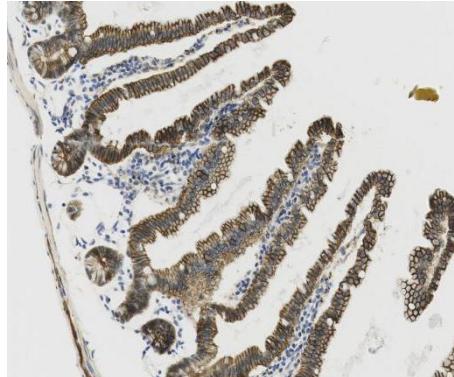
PBS with 0.02% sodium azide, 100  $\mu$ g/ml BSA and 50% glycerol.

**Storage:**

Store at -20 °C for one year.

**Experimental procedure:**

Antigen retrieval: Citrate buffer (pH 9.0) , Medium high heat for 8 minutes, stop for 7 minutes, medium high heat for 8 minutes. Incubate antibody, 4°C overnight. Secondary antibody: Poly-HRP Goat Anti-Rabbit & Mouse Universal Secondary Antibody, RT, 1h.

**Images:**

Sample: Mouse intestine, 4% PFA 12-24h

**Source of Reagents:**

发表[中文论文]请标注:ATP1A2(B36260S)由杭州浩克生物技术有限公司提供;

发表[英文论文]请标注:ATP1A2(B36260S) were kindly provided by Hangzhou Haoke Biotechnology Co., Ltd.

**Synonyms:**

242414G12, alpha 2 ATPase, ATP1A 2, EC:7.2.2.13, Na<sup>+</sup>/K<sup>+</sup> ATPase alpha-2 subunit

**Immunogen:**

Recombinant protein

**Isotype:**

IgG

**Subcellular location:**

Membrane

**Purity:**

Affinity purification

**Form:**

Liquid

**Storage Buffer:**