



# ATP4A Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-05964
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse
<b>Applications</b>	WB;ELISA
<b>Gene Name</b>	ATP4A
<b>Protein Name</b>	Potassium-transporting ATPase alpha chain 1 (EC 3.6.3.10) (Gastric H(+)/K(+) ATPase subunit alpha) (Proton pump)
<b>Immunogen</b>	Synthesized peptide derived from human protein . at AA range: 800-880
<b>Specificity</b>	ATP4A Polyclonal Antibody detects endogenous levels of protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB 1:500-2000 ELISA 1:5000-20000
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	
<b>Observed Band</b>	113kD
<b>Cell Pathway</b>	Apical cell membrane ; Multi-pass membrane protein . Localized in the apical canalicular membrane of parietal cells (PubMed:24188822). Localized in the apical canalicular membrane of parietal cells (PubMed:24188822). .
<b>Tissue Specificity</b>	Expressed in gastric parietal cells (at protein level).
<b>Function</b>	catalytic activity:ATP + H(2)O + H(+)(In) + K(+)(Out) = ADP + phosphate + H(+)(Out) + K(+)(In).,function:Catalyzes the hydrolysis of ATP coupled with the exchange of H(+) and K(+) ions across the plasma membrane. Responsible for acid production in the stomach.,similarity:Belongs to the cation transport ATPase (P-type) family.,similarity:Belongs to the cation transport ATPase (P-type) family. Type IIC subfamily.,subunit:Composed of two subunits: alpha (catalytic) and beta.,tissue specificity:Found in gastric mucosa.,
<b>Background</b>	The protein encoded by this gene belongs to a family of P-type cation-transporting ATPases. The gastric H <sup>+</sup> , K <sup>+</sup> -ATPase is a heterodimer consisting of a high molecular weight catalytic alpha subunit and a smaller but heavily glycosylated beta subunit. This enzyme is a proton pump that catalyzes the hydrolysis of ATP coupled with the exchange of H <sup>+</sup> and K <sup>+</sup> ions across the plasma membrane. It is also responsible for gastric acid secretion. This gene encodes a catalytic alpha subunit of the gastric H <sup>+</sup> , K <sup>+</sup> -ATPase. [provided by

RefSeq, Jul 2008],

**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**