

## Anti-Hydrogen Potassium ATPase Beta/ATP4B Antibody Picoband®

Catalog Number: A08719-1

### About ATP4B

This gene encodes the beta subunit of the gastric H<sup>+</sup>, K<sup>+</sup>-ATPase. 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.

### Overview

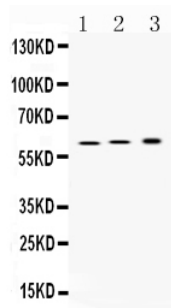
Product Name	Anti-Hydrogen Potassium ATPase Beta/ATP4B Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Hydrogen Potassium ATPase Beta/ATP4B Antibody Picoband® catalog # A08719-1. Tested in WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	WB
Clonality	Polyclonal
Formulation	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .
Storage Instructions	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.
Host	Rabbit
Uniprot ID	P51164

### Technical Details

Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human ATP4B, different from the related mouse and rat sequences by five amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.

Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.1-0.5ug/ml, Human, Mouse, Rat

## Anti-Hydrogen Potassium ATPase Beta/ATP4B Antibody Picoband® (A08719-1) Images



Western blot analysis of ATP4B using anti-ATP4B antibody (A08719-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. lane 1: rat stomach tissue lysate, lane 2: mouse stomach tissue lysate, lane 3: SGC7901 whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ATP4B antigen affinity purified polyclonal antibody (Catalog # A08719-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for ATP4B at approximately 60KD. The expected band size for ATP4B is at 33KD.

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