



BMA BIOMEDICALS

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**Monoclonal Antibody to Porcine H,K-ATPase alpha; ATP4A
Specific Marker for Gastric Parietal Cells / Proton Pump; UniProt: P19156**

Monoclonal antibody PPC19 recognizes the porcine gastric H,K-ATPase. This enzyme catalyzes the hydrolysis of ATP coupled with the exchange of H⁺ and K⁺ ions across the plasma membrane and is thus responsible for acid production in the stomach. The functional proton pump is actually a heterodimer consisting of a 114kDa alpha subunit with catalytic activity, and a 33kDa stabilizing beta subunit.

Of the various cell types that form the gastric mucosa, only parietal (oxyntic) cells of the fundic gland region possess this enzyme. Of pathological significance, their dysfunction induced by H. pylori infection leads to atrophic gastritis.

This antibody was produced in vitro in bioreactors.

Product number: T-3561

Clone: PPC19

Lot: 01PO1809

TECHNICAL AND ANALYTICAL CHARACTERISTICS:

Host species, subclass: Mouse IgG1

Quantity: 200µg

Format: Affinity purified from cell culture supernatant, lyophilized, packaged under nitrogen.
Reconstitute by adding 0.5ml distilled water. This stock solution contains 0.4mg/ml IgG, phosphate buffered saline pH 7.2 (PBS), 6mg/ml bovine serum albumin (BSA) as a stabilizer and 0.05% (v/v) Kathon CG as a preservative.

Stability: Original vial: 1 year at 4° - 8°C. Minimize repeated thawing and freezing of the stock solution.

Applications: Each lot of this antibody has been tested and validated for immunohistochemistry on formalin-fixed paraffin sections (IHC-p).

Approximate working dilution for IHC:

Paraffin sections: 4-8µg/ml (1:50-1:100); microwave pretreatment for antigen retrieval is recommended.

Optimal dilutions should be determined by the end user.
Suggested positive control: swine stomach fundus.

Please see www.bma.ch for protocols and general information.

Immunogen: Porcine stomach extract.

Antigen, epitope: The antibody reacts with formaldehyde-treated porcine gastric H,K-ATPase. The epitope has not been further characterized.

Antigen distribution: **Tissue sections:** porcine gastric parietal (oxyntic) cells of the fundic gland region

Specificity: **Pig:** parietal (oxyntic) cells

Other: not tested

This product contains Kathon as a preservative and is intended for laboratory use and research purposes only. Purchase of this product does not include authorization to reverse engineer any part thereof, nor to use it in diagnostic or therapeutic applications.