

## Product datasheet for **AP50307PU-N**

### **ATP6V1B1 (C-term) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/1000. <b>Western blotting:</b> 1/100 - 1/500.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic peptide between 471-501 amino acids from the C-terminal region of human ATP6V1B1
Specificity:	This antibody reacts to ATP6V1B1.
Formulation:	PBS containing 0.09% (W/V) sodium azide as preservative State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Affinity chromatography on Protein A
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	ATPase H <sup>+</sup> transporting V1 subunit B1
Database Link:	<a href="#">Entrez Gene 525 Human P15313</a>



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**Background:**

This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. V-ATPase is composed of a cytosolic V1 domain and a transmembrane V0 domain. The V1 domain consists of three A and three B subunits, two G subunits plus the C, D, E, F, and H subunits. The V1 domain contains the ATP catalytic site. The V0 domain consists of five different subunits: a, c, c', c'', and d. Additional isoforms of many of the V1 and V0 subunit proteins are encoded by multiple genes or alternatively spliced transcript variants. This encoded protein is one of two V1 domain B subunit isoforms and is found in the kidney. Mutations in this gene cause distal renal tubular acidosis associated with sensorineural deafness. [provided by RefSeq].

**Synonyms:**

V-ATPase subunit B 1, ATP6B1, VATB, VPP3

**Note:**

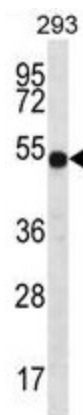
**Molecular Weight:** 56833 Da

**Protein Families:**

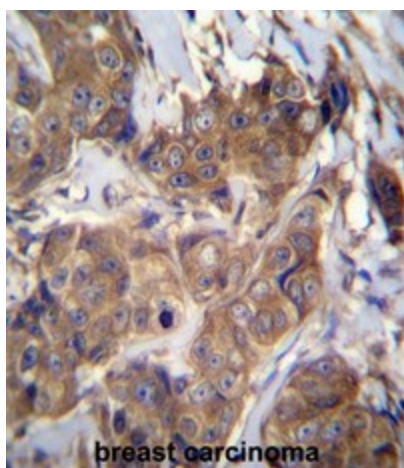
Druggable Genome

**Protein Pathways:**

Epithelial cell signaling in Helicobacter pylori infection, Metabolic pathways, Oxidative phosphorylation, Vibrio cholerae infection

**Product images:**

ATP6V1B1 Antibody (C-term) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the ATP6V1B1 antibody detected the ATP6V1B1 protein (arrow).



ATP6V1B1 Antibody (C-term)  
immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of ATP6V1B1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.