

## V-ATPase B1 Polyclonal Antibody

### Description

<b>Product type</b>	Primary Antibody
<b>Code</b>	BT-AP09480
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Size</b>	20ul, 50ul, 100ul
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human ATP6V1B1. AA range:381-430
<b>Mol wt</b>	56980
<b>Species reactivity</b>	Human, Mouse
<b>Clonality</b>	Polyclonal
<b>Recommended application</b>	WB, IHC-p, ELISA
<b>Concentration</b>	1 mg/ml
<b>Full name</b>	V-ATPase B1 Antibody
<b>Synonyms</b>	ATP6V1B1; ATP6B1; VATB; VPP3; V-type proton ATPase subunit B; kidney isoform; V-ATPase subunit B 1; Endomembrane proton pump 58 kDa subunit; Vacuolar proton pump subunit B 1

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

### Background

ATP6V1B1 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. V-type proton ATPase subunit B kidney isoform 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.

### Recommended Dilution

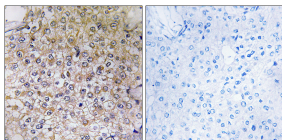
WB: 1: 500 - 1: 2000

IHC: 1: 100 - 1: 300

ELISA: 1: 5000

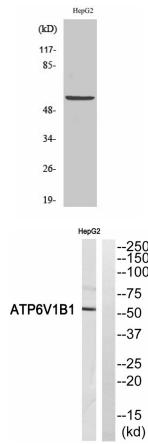
Not yet tested in other applications.

### Images



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using ATP6V1B1 Antibody. The lane on the right is blocked with the ATP6V1B1 peptide.

Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using ATP6V1B1 Antibody. The picture on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using V-ATPase B1 Polyclonal Antibody. Secondary antibody was diluted at 1:20000

Western blot analysis of ATP6V1B1 Antibody. The lane on the right is blocked with the ATP6V1B1 peptide.

### Storage

-20°C for one year

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