



Rabbit Anti-ATP6V1B2 antibody

SL12549R

Product Name:	ATP6V1B2
Chinese Name:	ATP6V1B2蛋白抗体
Alias:	V-ATPase B2; ATP6B1B2; ATP6B2; ATP6V1 B2; ATP6V1B 2; ATP6V1B2; ATPase H ⁺ transporting lysosomal 56/58kDa V1 subunit B isoform 2; ATPase H ⁺ transporting lysosomal 56/58kDa V1 subunit B2; ATPase H ⁺ transporting, lysosomal (vacuolar proton pump) beta polypeptide 56/58kD isoform 2; ATPase, H ⁺ transporting, lysosomal V1 subunit B2; brain isoform; Endomembrane proton pump 58 kDa subunit; H ⁺ transporting two sector ATPase; HO 57; HO57; V ATPase B2 subunit; V ATPase subunit B 2; V type proton ATPase subunit B, brain isoform; V-ATPase subunit B 2; V-type proton ATPase subunit B; Vacuolar ATP synthase subunit B brain isoform; Vacuolar H ⁺ ATPase 56,000 subunit; Vacuolar H ⁺ ATPase 56000 subunit; Vacuolar H ⁺ ATPase B2; Vacuolar proton pump subunit B 2; VAT B2; VATB 2; VATB; VATB2; VATB2 HUMAN; Vma 2; Vma2; VPP 3; VPP3.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,Cynomolgus Monkey,Orangutan
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	56kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ATP6V1B2:51-150/511
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody

	<p>is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.</p>
<p>PubMed:</p>	<p>PubMed</p>
<p>Product Detail:</p>	<p>Vacuolar-type H⁺-ATPase (V-ATPase) is a multisubunit enzyme responsible for acidification of eukaryotic intracellular organelles. V-ATPases pump protons against an electrochemical gradient, while F-ATPases reverse the process, thereby synthesizing ATP. A peripheral V1 domain, which is responsible for ATP hydrolysis, and a integral V0 domain, which is responsible for proton translocation, compose V-ATPase. Nine subunits (A–H) make up the V1 domain and five subunits (a, d, c, c' and c'') make up the V0 domain. Like F-ATPase, V-ATPase most likely operates through a rotary mechanism. The V-ATPase V1 B subunit exists as two isoforms. In the inner ear, the V-ATPase B1 isoform functions in proton secretion and is required to maintain proper endolymph pH and normal auditory function. The gene encoding the human V-ATPase B1 isoform maps to chromosome 2cen-q13. Mutations in this gene cause distal renal tubular acidosis associated with sensorineural deafness. The V-ATPase B2 isoform is expressed in kidney and is the only B isoform expressed in osteoclasts. The gene encoding the human V-ATPase B2 isoform maps to chromosome 8p22-p21.</p> <p>Function: Non-catalytic subunit of the peripheral V1 complex of vacuolar ATPase. V-ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells.</p> <p>Subunit: V-ATPase is a heteromultimeric enzyme composed of a peripheral catalytic V1 complex (main components: subunits A, B, C, D, E, and F) attached to an integral membrane V0 proton pore complex (main component: the proteolipid protein).</p> <p>Subcellular Location: Endomembrane system. Melanosome. Endomembrane. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.</p> <p>Similarity: Belongs to the ATPase alpha/beta chains family.</p> <p>SWISS: P21281</p> <p>Gene ID: 526</p> <p>Database links: Entrez Gene: 526Human Entrez Gene: 11966Mouse</p>

[Entrez Gene: 100173673](#)Orangutan

[Entrez Gene: 117596](#)Rat

[Entrez Gene: 338082](#)Cow

[Oimim: 606939](#)Human

[SwissProt: P31408](#)Cow

[SwissProt: P21281](#)Human

[SwissProt: P62814](#)Mouse

[SwissProt: Q5R5V5](#)Orangutan

[SwissProt: P62815](#)Rat

[Unigene: 295917](#)Human

[Unigene: 249096](#)Mouse

[Unigene: 8109](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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