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Product Number	ARP56329_P050-HRP
Product Page	www.avivasysbio.com/atp6v1b2-antibody-middle-region-hrp-arp56329-p050-hrp.html
Name	ATP6V1B2 Antibody - middle region : HRP (ARP56329_P050-HRP)
Protein Size (# AA)	511 amino acids
Molecular Weight	56kDa
Subunit	B, brain isoform
Conjugation	HRP: Horseradish Peroxidase
NCBI Gene Id	526
Host	Rabbit
Clonality	Polyclonal
Concentration	0.5 mg/ml
Gene Full Name	ATPase, H ⁺ transporting, lysosomal 56/58kDa, V1 subunit B2
Alias Symbols	DOOD, HO57, VATB, VPP3, Vma2, ZLS2, ATP6B2, ATP6B1B2
Peptide Sequence	Synthetic peptide located within the following region: NFIAQGYPYENRTVFETLDIGWQLLRIFPKEMLKRIPOSTLSEFYPRDSAK
Product Format	Liquid. Purified antibody is supplied in high phosphate PBS, 100 mM phosphate, 150 mM NaCl, pH 7.6.
Reference	Chi,A., (2006) J. Proteome Res. 5 (11), 3135-3144
Description of Target	ATP6V1B2 is 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, three B, and two G subunits, as well as a C, D, E, F, and H subunit. The V1 domain contains the ATP catalytic site. ATP6V1B2 is one of two V1 domain B subunit isoforms and is the only B isoform highly expressed in osteoclasts. 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, three B, and two G subunits, as well as a C, D, E, F, and H subunit. The V1 domain contains the ATP catalytic site. The protein encoded by this gene is one of two V1 domain B subunit isoforms and is the only B isoform highly expressed in osteoclasts. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.
Protein Interactions	TCF4; UBC; PBDC1; GMPPB; GANAB; SWAP70; MSH2; JUP; MSH6; XRCC6; CRMP1; HYOU1; SEC24C; CUL2; SUPT5H; SSRP1; PDE3A; CSDE1; PAN2; FN1; SRXN1; YIF1B; UNK; ZFYVE19; TUBA1C; INTS2; TRMT1; ABCF3; ATP6V1H; CCT8; SSSCA1; TUBB4B; UBA2; USP34; ATP6V1F; ZBED1; ZPR1;
Reconstitution and Storage	All conjugated antibodies should be stored in light-protected vials or covered with a light protecting material (i.e. aluminum foil). Conjugated antibodies are stable for at least 12 months at 4C. If longer storage is desired (24 months), conjugates may be diluted with up to 50% glycerol and stored at -20C to -80C. Freezing and thawing conjugated antibodies will compromise enzyme activity as well as antibody binding.
Datasheets/Manuals	Printable datasheet for anti-ATP6V1B2 (ARP56329_P050-HRP) antibody
Blocking Peptide	For anti-ATP6V1B2 (ARP56329_P050-HRP) antibody is Catalog# AAP56329 (Previous Catalog # AAPP35401)
Immunogen	The immunogen is a synthetic peptide directed towards the middle region of human ATP6V1B2
Uniprot ID	P21281

Protein Name	V-type proton ATPase subunit B, brain isoform
Protein Accession #	NP_001684
Purification	Affinity Purified
Nucleotide Accession #	NM_001693
Gene Symbol	ATP6V1B2
Predicted Species Reactivity	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Pig, Rabbit, Zebrafish
Application	WB
Predicted Homology Based on Immunogen Sequence	Cow: 100%; Dog: 100%; Guinea Pig: 93%; Horse: 100%; Human: 100%; Mouse: 100%; Pig: 100%; Rabbit: 100%; Rat: 100%; Zebrafish: 92%
Image 1	

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Optimal conditions of its use should be determined by end users.

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