Datasheet for ABIN2786643

anti-ATP6V1B2 antibody (Middle Region)

1 Image

Go to Product page

Overview

Quantity:	100 µL
Target:	ATP6V1B2
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Dog, Rabbit, Guinea Pig, Zebrafish (Danio rerio), Pig, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP6V1B2 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human ATP6V1B2
Sequence:	NFIAQGPYEN RTVFETLDIG WQLLRIFPKE MLKRIPQSTL SEFYPRDSAK
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 92%
Characteristics:	This is a rabbit polyclonal antibody against ATP6V1B2. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	ATP6V1B2

Target Details

Alternative Name:	ATP6V1B2 (ATP6V1B2 Products)
Background:	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. Alias Symbols: ATP6B1B2, ATP6B2, HO57, VATB, VPP3, Vma2 Protein Interaction Partner: 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, Protein Size: 511
Molecular Weight:	56 kDa
Gene ID:	526
NCBI Accession:	NM_001693, NP_001684
UniProt:	P21281
Pathways:	Transition Metal Ion Homeostasis, Proton Transport

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.

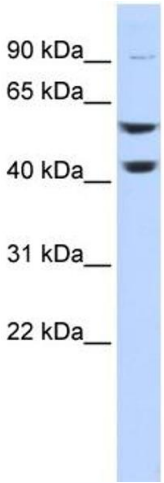
Application Details

Comment:	Antigen size: 511 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-ATP6V1B2 Antibody

Titration: 0.2-1 ug/ml

ELISA Titer: 1:1562500

Positive Control: Hela cell lysate