

bs-12548R**[Primary Antibody]****ATP6V0D2 Rabbit pAb****BioSS**
ANTIBODIES

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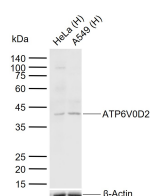
sales@bioss.com.cn

techsupport@bioss.com.cn

400-901-9800

— DATASHEET —

Host: Rabbit Clonality: Polyclonal GeneID: 245972 Target: ATP6V0D2 Immunogen: KLH conjugated synthetic peptide derived from human ATP6V0D2/V-ATPase D2: 251-350/350. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: 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. V-ATPase D2 is a 350 amino acid protein that is expressed in kidney, lung and osteoclast. V-ATPase D2 has been implicated as a regulator of urine acidification, osteoclast fusion and bone formation. Furthermore, V-ATPase D2 has been identified as a dendritic cell marker.	Isotype: IgG SWISS: Q8N8Y2 Applications: WB (1:500-2000) Reactivity: Human (predicted: Mouse, Rat, Pig, Sheep, Dog) Predicted MW.: 40 kDa Subcellular Location: Cell membrane ,Cytoplasm
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— VALIDATION IMAGES —

Sample: Lane 1: Human HeLa cell lysates Lane 2: Human A549 cell lysates Primary: Anti-ATP6V0D2 (bs-12548R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 40 kDa Observed band size: 40 kDa

— SELECTED CITATIONS —

- **[IF=14.919]** Dai, Bingyang. et al. Macrophages in epididymal adipose tissue secrete osteopontin to regulate bone homeostasis. Nat Commun. 2022 Jan;13(1):1-17 WB ;Mouse. 35058428
- **[IF=6.656]** Yuxin Li. et al. Structure-based virtual screening for discovery of Paederosidic Acid from Paederia Scandens as novel P2Y14R antagonist. PHYTOMEDICINE. 2023 May;;154851 WB ;Mouse. 37149963
- **[IF=6.15]** Fang, Chao. et al. Diterbutyl phthalate attenuates osteoarthritis in ACLT mice via suppressing ERK/c-fos/NFATc1 pathway, and subsequently inhibiting subchondral osteoclast fusion. Acta Pharmacol Sin. 2021 Aug;;1-12 WB

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

;Mouse. 34381182

- **[IF=4.966]** Hirohito Hirata. et al. PMEPA1 and NEDD4 control the proton production of osteoclasts by regulating vesicular trafficking. *Faseb J.* 2021 Feb;35(2):e21281 IF ;Mouse. 33484199
- **[IF=5.051]** Hasegawa Tomoka. et al. Evocalcet rescues secondary hyperparathyroidism-driven cortical porosity in chronic kidney disease male rats. *ENDOCRINOLOGY.* 2023 Jan;: IHC ;Rat. 36718587