### bs-12548R

## [ Primary Antibody ]

# ATP6V0D2 Rabbit pAb



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| - DATASHEET  |  | 400-901-9800   |
|--|--|--|
| Host: Rabbit   | Isotype: IgG   | <b>Applications: WB</b> (1:500-2000)   |
| Clonality: Polyclonal  | -  | Reactivity: Human (predicted: Mouse,   |
| GenelD: 245972   | SWISS: Q8N8Y2  | Rat, Pig, Sheep, Dog)  |
| Target: ATP6V0D2   |  |  |
| Immunogen: KLH conjugated synthetic peptide derived from human ATP6V0D2/V-ATPase D2: 251-350/350.  |  | Predicted<br>MW.: <sup>40 kDa</sup>  |
| Purification: affinity purified by   | Protein A  | Cuch as Hulls a  |
| Concentration: 1mg/ml  |  | Location: Cell membrane ,Cytoplasm   |
| Storage: 0.01M TBS (pH7.4)<br>Glycerol.<br>Shipped at 4°C. Sto<br>freeze/thaw cycles   | with 1% BSA, 0.02% Proclin300 and 50%<br>ore at -20°C for one year. Avoid repeated   |  |
| Background: Vacuolar-type H+<br>responsible for aci<br>V-ATPases pump p<br>while F-ATPases re<br>peripheral V1 dom<br>a integral V0 doma<br>compose V-ATPase<br>and five subunits (<br>ATPase, V-ATPase<br>mechanism. V-ATP<br>expressed in kidne<br>implicated as a reg<br>and bone formatic<br>as a dendritic cell | ATPase (V-ATPase) is a multisubunit enzym<br>dification of eukaryotic intracellular organe<br>rotons against an electrochemical gradient<br>werse the process, thereby synthesizing AT<br>ain, which is responsible for ATP hydrolysis<br>in, which is responsible for proton transloc<br>e. Nine subunits (A–H) make up the V1 dom<br>a, d, c, c' and c'') make up the V0 domain. Li<br>most likely operates through a rotary<br>ase D2 is a 350 amino acid protein that is<br>y, lung and osteoclast. V-ATPase D2 has bee<br>julator of urine acidification, osteoclast fus<br>in. Furthermore, V-ATPase D2 has been ider<br>marker. | e<br>elles.<br>t,<br>P. A<br>s, and<br>s, and<br>siation,<br>ain<br>ike F-<br>en<br>ion<br>ntified |

#### - 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/cfos/NFATc1 pathway, and subsequently inhibiting subchondral osteoclast fusion. Acta Pharmacol Sin. 2021 Aug;:1-12 WB

;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