bs-1611R

[Primary Antibody]

Cathepsin K Rabbit pAb



www.bioss.com.cn sales@bioss.com.cn techsupport@bioss.com.cn 400-901-9800

- DATASHEET -Host: Rabbit Isotype: IgG Applications: WB (1:500-2000) **IHC-P** (1:100-500) Clonality: Polyclonal **IHC-F** (1:100-500) GenelD: 1513 SWISS: P43235 IF (1:100-500) Target: Cathepsin K Reactivity: Mouse, Rat Immunogen: KLH conjugated synthetic peptide derived from human Cathepsin (predicted: Human, Pig, K: 112-210/329. Cow, Dog, GuineaPig, Horse) Purification: affinity purified by Protein A Concentration: 1mg/ml Predicted 36 kDa MW.: Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Subcellular Location: Cytoplasm Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: The protein encoded by this gene is a lysosomal cysteine proteinase involved in bone remodeling and resorption. This protein, which is a member of the peptidase C1 protein family, is predominantly expressed in osteoclasts. However, the encoded protein is also expressed in a significant fraction of human breast cancers, where it could contribute to tumor invasiveness.

- VALIDATION IMAGES -



by RefSeq, Jul 2008].

Sample: Lane 1: Mouse Raw264.7 cell lysates Lane 2: Mouse 4T1 cell lysates Primary: Anti-Cathepsin K (bs-1611R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 36 kDa Observed band size: 46 kDa



Mutations in this gene are the cause of pycnodysostosis, an autosomal recessive disease characterized by osteosclerosis and short stature. This gene may be subject to RNA editing. [provided

> Tissue/cell: mouse heart tissue; 4% Paraformaldehyde-fixed and paraffinembedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Cathepsin K Polyclonal Antibody, Unconjugated(bs-1611R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

- SELECTED CITATIONS -

- [IF=18] Dong Wang. et al. Treatment of hemophilic arthropathy by immunomodulatory extracellular vesicle delivered by liposome hybrid nanoparticles. BIOACT MATER. 2024 Oct;40:47 IHC ;Mouse. 10.1016/j.bioactmat.2024.05.039
- [IF=14.976] Qinyu Ma. et al. Small extracellular vesicles deliver osteolytic effectors and mediate cancer induced osteolysis in bone metastatic niche. J Extracell Vesicles. 2021 Feb;10(4):e12068 WB ;MOUSE. 33659051
- [IF=14.3] Yansi Xian. et al.Enhanced SIRT3 expression restores mitochondrial quality control mechanism to reverse osteogenic impairment in type 2 diabetes mellitus.BONE RESEARCH.2025 Mar 3;13(1):30. IF ;MOUSE. 40025004

- [IF=14.1] Chuanrui Ma. et al. Wogonin Attenuates Atherosclerosis via KLF11-Mediated Suppression of PPARα-YAP1-Driven Glycolysis and Enhancement of ABCA1/G1-Mediated Cholesterol Efflux. ADV SCI. 2025 May;:2500610 IF ;Mouse. 40397286
- [IF=7.088] Xinyi Qi. et al. Briarane-type diterpenoids, the inhibitors of osteoclast formation by interrupting Keap1-Nrf2 interaction and activating Nrf2 pathway. EUR J MED CHEM. 2023 Jan;246:114948 WB ;MOUSE. 36446206