abcam

Product datasheet

Anti-RANKL antibody [12A668] - BSA and Azide free ab45039

★★★★★ 2 Abreviews 67 References 5 图像

概述

产品名称 Anti-RANKL抗体[12A668] - BSA and Azide free

描述 小鼠单克隆抗体[12A668] to RANKL - BSA and Azide free

宿主 Mouse

经测试应用 适用于: ICC/IF, WB, IHC-P

不适用于: Flow Cyt

种属反应性 与反应: Human

免疫原 Recombinant full length protein corresponding to Mouse RANKL aa 1-317.

Database link: **O14788**

阳性对照 IHC-P: Human lymph node and liver tissue. ICC/IF: HeLa (human epithelial cell line from cervix

adenocarcinoma) cells. WB: Human lymph node lysate.

常规说明

The Life Science industry has been in the grips of a reproducibility crisis for a number of years.

Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets

your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or

contact our Support team ahead of purchase. Recommended alternatives for this product can be

found below, along with publications, customer reviews and Q&As

性能

形式 Liquid

存放说明 Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

term.

存储溶液 pH: 7.40

Constituent: PBS

无载体 是

纯**度** Protein G purified

 克隆
 单克隆

 克隆编号
 12A668

同种型 lgG1

1

轻链类型 kappa

应用

The Abpromise guarantee Abpromise™承诺保证使用ab45039于以下的经测试应用

"应用说明"部分下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		Use a concentration of 10 μg/ml.
WB	★★★★☆ (1)	Use a concentration of 1 - 2 µg/ml. Detects a band of approximately 35 kDa (predicted molecular weight: 35 kDa).
IHC-P	*** <u>*</u>	Use a concentration of 1 - 5 μg/ml.

应用说明

Is unsuitable for Flow Cyt.

靶标

功能 Cytokine that binds to TNFRSF11B/OPG and to TNFRSF11A/RANK. Osteoclast differentiation

and activation factor. Augments the ability of dendritic cells to stimulate naive T-cell proliferation. May be an important regulator of interactions between T-cells and dendritic cells and may play a role in the regulation of the T-cell-dependent immune response. May also play an important role in

enhanced bone-resorption in humoral hypercalcemia of malignancy.

组织特异性 Highest in the peripheral lymph nodes, weak in spleen, peripheral blood Leukocytes, bone

marrow, heart, placenta, skeletal muscle, stomach and thyroid.

疾病相关 Defects in TNFSF11 are the cause of osteopetrosis autosomal recessive type 2 (OPTB2)

[MIM:259710]; also known as osteoclast-poor osteopetrosis. Osteopetrosis is a rare genetic disease characterized by abnormally dense bone, due to defective resorption of immature bone. The disorder occurs in two forms: a severe autosomal recessive form occurring in utero, infancy, or childhood, and a benign autosomal dominant form occurring in adolescence or adulthood. Autosomal recessive osteopetrosis is usually associated with normal or elevated amount of nonfunctional osteoclasts. OPTB2 is characterized by paucity of osteoclasts, suggesting a molecular

defect in osteoclast development.

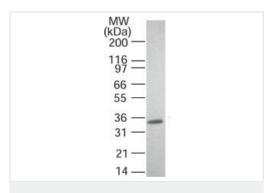
序列相似性 Belongs to the tumor necrosis factor family.

翻译后修饰 The soluble form of isoform 1 derives from the membrane form by proteolytic processing (By

similarity). The cleavage may be catalyzed by ADAM17.

细胞定位 Cytoplasm; Secreted and Cell membrane.

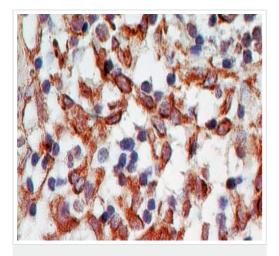
图片



Western blot - Anti-RANKL antibody [12A668] - BSA and Azide free (ab45039)

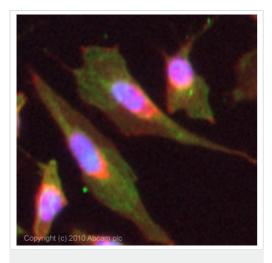
Anti-RANKL antibody [12A668] - BSA and Azide free (ab45039) at 2 μ g + transfected cell lysate

Predicted band size: 35 kDa **Observed band size:** 35 kDa



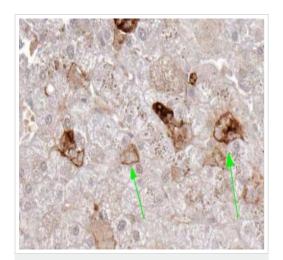
Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-RANKL antibody
[12A668] - BSA and Azide free (ab45039)

Paraffin embedded human lymph node tissue stained for RANKL with ab45039 at 5 $\mu g/ml$.



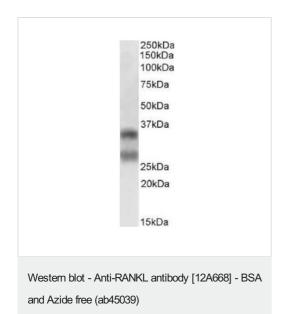
Immunocytochemistry/ Immunofluorescence - Anti-RANKL antibody [12A668] - BSA and Azide free (ab45039)

ICC/IF image of ab45039 stained HeLa cells. The cells were 4% formaldehyde fixed (10 minutes) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1 hour to permeabilize the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab45039, 10 μ g/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor[®] 488 goat anti-mouse lgG (H+L) used at a 1/1000 dilution for 1 hour. Alexa Fluor[®] 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1 hour. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43 μ M.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-RANKL antibody
[12A668] - BSA and Azide free (ab45039)

Paraffin embedded human liver tissue stained for RANKL with ab45039 at a 1/500 dilution. Peroxidase-conjugate and DAB chromogen. A 2 hour incubation at RT was used.



Anti-RANKL antibody [12A668] - BSA and Azide free (ab45039) at 0.5 μ g/ml + human lymph node lysate in RIPA buffer at 35 μ g

Predicted band size: 35 kDa

Additional bands at: 28 kDa (possible isoform)

Band detected at ~35kDa and ~28kDa. (Expected MW of 35.5kDa according to NP_003692.1 and of 27.7kDa according to NP_143026.1)

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