abcam

Product datasheet

Anti-Cathepsin B antibody [EPR21033] ab214428

重组 RabMAb

★★★★★ 5 Abreviews 11 References 7 图像

概述

产品名称 Anti-Cathepsin B抗体[EPR21033]

描述 兔单克隆抗体[EPR21033] to Cathepsin B

宿主 Rabbit

经测试应用 适用于: Flow Cyt (Intra), IHC-P, WB, ICC/IF

种属反应性 与反应: Mouse, Rat

免疫原 Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.

阳性对照 WB: Mouse kidney tissue lysate; Rat thymus and kidney tissue lysates; RAW 264.7 and PC-12

whole cell lysates. IHC-P: Mouse and rat kidney tissues. ICC/IF: RAW 264.7 and PC-12 cells.

Flow Cyt (intra): RAW 264.7 cells.

常规说明 This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility

- Improved sensitivity and specificity

- Long-term security of supply

- Animal-free production

For more information see here.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb**® **patents**.

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. Avoid freeze / thaw cycle.

存储溶液 pH: 7.2

Preservative: 0.01% Sodium azide

Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA

纯度 Protein A purified

克隆 单克隆 克隆编号 EPR21033

应用

The Abpromise guarantee Abpromise™承诺保证使用ab214428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
Flow Cyt (Intra)		1/500.
IHC-P	* * * * * <u>(2)</u>	1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB	★★★★ <u>(2)</u>	1/1000. Predicted molecular weight: 37 kDa.
ICC/IF	*** <u>*</u>	1/250.

靶标

功能 Thiol protease which is believed to participate in intracellular degradation and turnover of

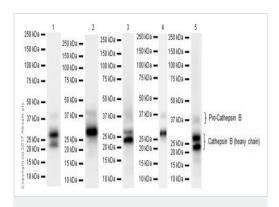
proteins. Has also been implicated in tumor invasion and metastasis.

序列相似性 Belongs to the peptidase C1 family.

细胞定位 Lysosome. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I

to stage IV.

图片



Western blot - Anti-Cathepsin B antibody [EPR21033] (ab214428) **All lanes :** Anti-Cathepsin B antibody [EPR21033] (ab214428) at 1/1000 dilution

Lane 1: Mouse kidney tissue lysate

Lane 2: RAW 264.7 (mouse macrophage cell line transformed

with Abelson murine leukemia virus) whole cell lysate

Lane 3: Rat thymus tissue lysate

Lane 4: Rat kidney tissue lysate

Lane 5: PC-12 (rat adrenal gland pheochromocytoma cell line)

whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit lgG H&L (HRP) (<u>ab97051</u>) at 1/100000 dilution

Developed using the ECL technique.

Predicted band size: 37 kDa

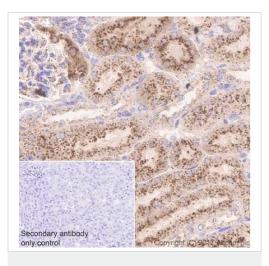
Observed band size: 25,31,43 kDa

Exposure times: Lanes 1,2: 23 seconds; Lane 3: 50 seconds;

Lane 4: 15 seconds; Lane 5: 2 minutes.

Blocking/Dilution buffer: 5% NFDM/TBST.

The expression profile and molecular mass is consistent with what has been described in the literature (PMID:20536394; PMID: 10447678).

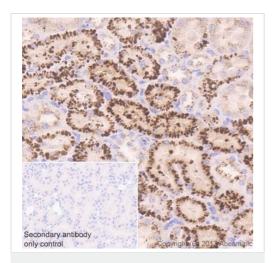


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Cathepsin B antibody
[EPR21033] (ab214428)

Immunohistochemical analysis of paraffin-embedded mouse kidney tissue labeling Cathepsin B with ab214428 at 1/1000 dilution, followed by secondary Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Punctate cytoplasmic staining on mouse kidney (PMID: 20668705; PMID: 26831567) is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit lgG H&L (HRP) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

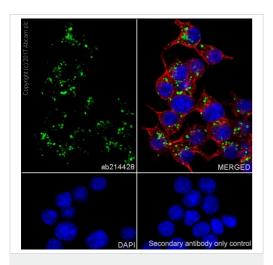


Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-Cathepsin B antibody
[EPR21033] (ab214428)

Immunohistochemical analysis of paraffin-embedded rat kidney tissue labeling Cathepsin B with ab214428 at 1/1000 dilution, followed by secondary Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Punctate cytoplasmic staining on rat kidney (PMID: 20668705; PMID: 26831567) is observed. Counter stained with hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP)

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Ready to use.

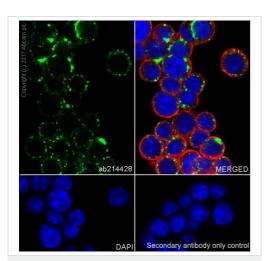


Immunocytochemistry/ Immunofluorescence - Anti-Cathepsin B antibody [EPR21033] (ab214428)

Immunofluorescent analysis of 100% methanol-fixed RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus) cells labeling Cathepsin B with ab214428 at 1/250 dilution, followed by Goat Anti-Rabbit lgG H&L (Alexa Fluor[®] 488) (ab150077) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining in RAW 264.7 cells.

The nuclear counterstain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (ab195889) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution.

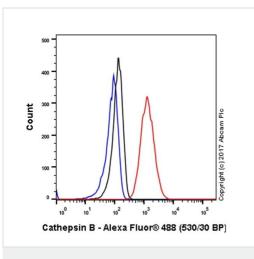


Immunocytochemistry/ Immunofluorescence - Anti-Cathepsin B antibody [EPR21033] (ab214428)

Immunofluorescent analysis of 100% methanol-fixed PC-12 (rat adrenal gland pheochromocytoma cell line) cells labeling Cathepsin B with ab214428 at 1/250 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on PC-12 cells.

The nuclear counterstain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) at 1/200 dilution (red).

Secondary antibody only control: Used PBS instead of primary antibody, followed by Goat Anti-Rabbit lgG H&L (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-Cathepsin B antibody [EPR21033] (ab214428)

Intracellular flow cytometric analysis of 4% paraformal dehyde-fixed, 90% methanol-permeabilized RAW 264.7 (mouse macrophage cell line transformed with Abelson murine leukemia virus) cell line labeling Cathepsin B with ab214428 at 1/500 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (ab172730) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (ab150077), at 1/2000 dilution was used as the secondary antibody.



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