

Product datasheet

Anti-NRAMP1 antibody ab58138

3 图像

概述

产品名称	Anti-NRAMP1抗体
描述	小鼠单克隆抗体to NRAMP1
宿主	Mouse
经测试应用	适用于: WB, ICC/IF, Flow Cyt
种属反应性	与反应: Human
免疫原	Recombinant fragment: QAFYQKTNQA AFNICANSSL HDYAKIFPMN NATVAVDIYQ GGV, corresponding to amino acids 308-351 of Human NRAMP1 Run BLAST with ExPASy Run BLAST with NCBI
阳性对照	This antibody gave a positive result when used in the following methanol fixed cell lines: A549

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	Preservative: None PBS, pH 7.2
纯度	Protein G purified
克隆	单克隆
同种型	IgG1
轻链类型	kappa

应用

Our [Abpromise guarantee](#) covers the use of **ab58138** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

应用	Ab评论	说明

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WB		Use a concentration of 1 - 5 µg/ml. This antibody has only been tested in WB against the recombinant fragment used as immunogen. We have no data on the detection of endogenous protein.
ICC/IF		Use a concentration of 5 µg/ml.
Flow Cyt		Use 0.1µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

靶标

功能

Divalent transition metal (iron and manganese) transporter involved in iron metabolism and host resistance to certain pathogens. Macrophage-specific membrane transport function. Controls natural resistance to infection with intracellular parasites. Pathogen resistance involves sequestration of Fe(2+) and Mn(2+), cofactors of both prokaryotic and eukaryotic catalases and superoxide dismutases, not only to protect the macrophage against its own generation of reactive oxygen species, but to deny the cations to the pathogen for synthesis of its protective enzymes.

组织特异性

Macrophages; peripheral blood leukocytes, lung, spleen and liver.

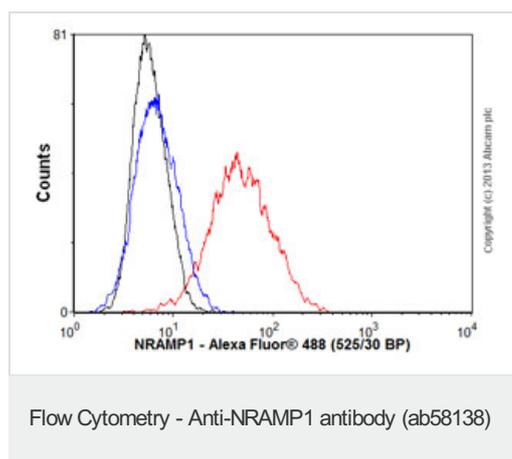
序列相似性

Belongs to the NRAMP family.

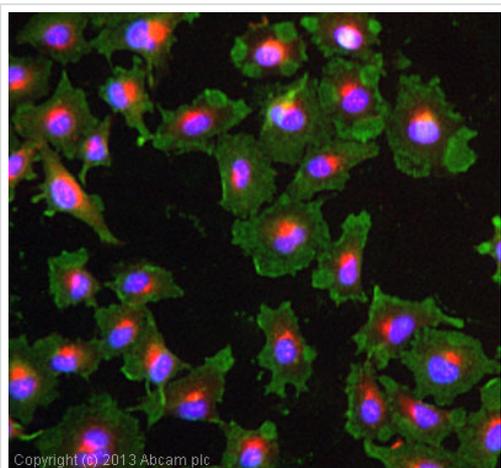
细胞定位

Membrane.

图片



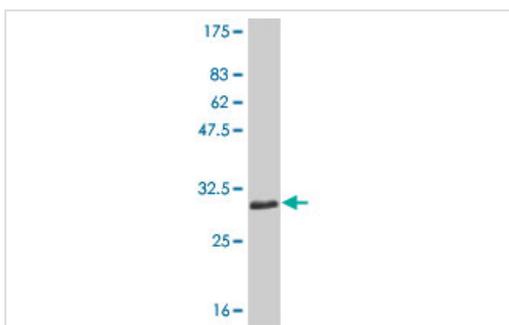
Overlay histogram showing HepG2 cells stained with ab58138 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab58138, 0.1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was an [anti-mouse Alexa Fluor® 488 \(ab150113\)](#) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [[ICIGG1](#)] ([ab91353](#), 1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.



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Immunocytochemistry/ Immunofluorescence - Anti-NRAMP1 antibody (ab58138)

ICC/IF image of ab58138 stained A549 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab58138 at 5µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- mouse (ab96879) IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Western blot - Anti-NRAMP1 antibody (ab58138)

Western blot against tagged recombinant protein immunogen using ab58138 NRAMP1 antibody at 1ug/ml. Predicted band size of immunogen is 31 kDa

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