

Product datasheet

Anti-NCF4 antibody [EP2142Y] ab76158

Recombinant RabMAb

★★★★★ 1 Abreviews 4 References 4 Images

Overview

Product name	Anti-NCF4 antibody [EP2142Y]
Description	Rabbit monoclonal [EP2142Y] to NCF4
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB, IP, IHC-P, Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human NCF4 aa 300-400 (C terminal). The exact sequence is proprietary.
Positive control	HL60 cell lysate; human spleen tissue. IF/ICC: MCF7 cell line.
General notes	Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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

This product is a recombinant rabbit monoclonal antibody.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	PBS 49%, Sodium azide 0.01%, Glycerol 50%, BSA 0.05%
Purity	Tissue culture supernatant
Clonality	Monoclonal
Clone number	EP2142Y
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab76158** in the following tested applications.

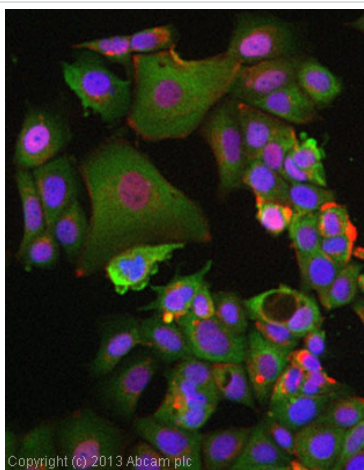
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/100 - 1/250.
WB	★★★★★	1/25000 - 1/50000. Detects a band of approximately 39 kDa (predicted molecular weight: 39 kDa).
IP		1/50.
IHC-P		1/100 - 1/250.
Flow Cyt		1/20 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

Target

Function	Component of the NADPH-oxidase, a multicomponent enzyme system responsible for the oxidative burst in which electrons are transported from NADPH to molecular oxygen, generating reactive oxidant intermediates. It may be important for the assembly and/or activation of the NADPH-oxidase complex.
Tissue specificity	Expression is restricted to hematopoietic cells.
Sequence similarities	Contains 1 PX (phox homology) domain. Contains 1 SH3 domain.
Cellular localization	Cytoplasm.

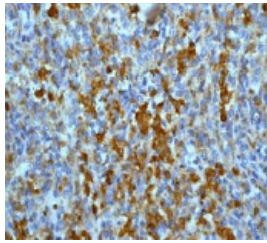
Images



Immunocytochemistry/ Immunofluorescence - Anti-NCF4 antibody [EP2142Y] (ab76158)

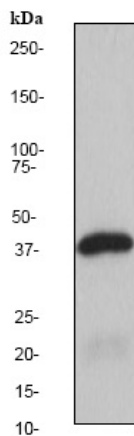
ICC/IF image of ab76158 stained MCF7 cells.

The cells were 4% formaldehyde fixed (10 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 (ab76158, 1/25 dilution) overnight at +4°C. The secondary antibody (green) was [ab96899](#), DyLight® 488 goat anti-rabbit 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.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-NCF4 antibody [EP2142Y] (ab76158)

ab76158 at 1/100-1/250 dilution staining NCF4 in human spleen by Immunohistochemistry, Paraffin-embedded tissue.



Western blot - Anti-NCF4 antibody [EP2142Y] (ab76158)

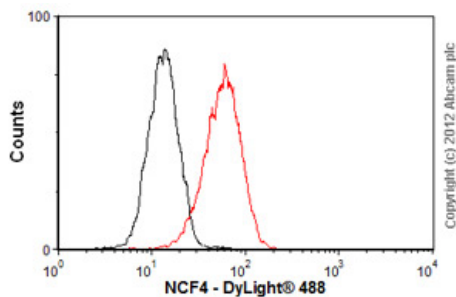
Anti-NCF4 antibody [EP2142Y] (ab76158) at 1/50000 dilution + HL60 cell lysate at 10 μ g

Secondary

goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 39 kDa

Observed band size: 39 kDa



Flow Cytometry - Anti-NCF4 antibody [EP2142Y] (ab76158)

Overlay histogram showing K562 cells stained with ab76158 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab76158, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (ab96899) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1 μ g/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed.

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