


Product datasheet

Anti-D4 GDI antibody [EPR14212(B)] ab181252

Recombinant RabMAb

★★★★★ [4 Abreviews](#) [3 References](#) [7 Images](#)

Overview

Product name	Anti-D4 GDI antibody [EPR14212(B)]
Description	Rabbit monoclonal [EPR14212(B)] to D4 GDI
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), IHC-P, WB, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Jurkat, U937, HL60 and Human spleen lysates; Human tonsil and Human bone marrow tissues; HL60 cells.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	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.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR14212(B)
Isotype	IgG

Applications

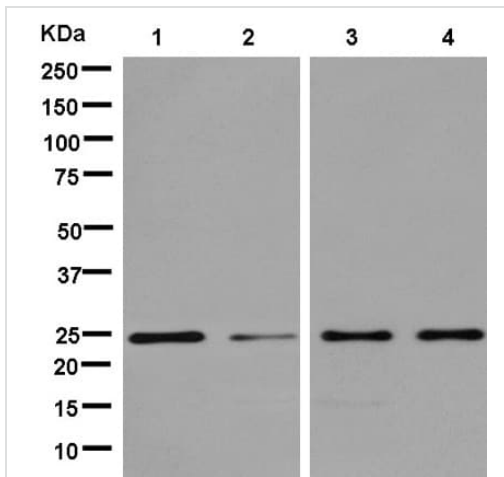
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab181252 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/70. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-P		1/250 - 1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB	★★★★★ (2)	1/1000 - 1/10000. Detects a band of approximately 23 kDa (predicted molecular weight: 22 kDa).
ICC/IF	★★★★★ (2)	1/50 - 1/100.

Target

Function	Regulates the GDP/GTP exchange reaction of the Rho proteins by inhibiting the dissociation of GDP from them, and the subsequent binding of GTP to them (PubMed:8356058, PubMed:7512369). Regulates reorganization of the actin cytoskeleton mediated by Rho family members (PubMed:8262133).
Tissue specificity	Detected in bone marrow, thymus and spleen.
Sequence similarities	Belongs to the Rho GDI family.
Cellular localization	Cytoplasm, cytosol.

Images



Western blot - Anti-D4 GDI antibody [EPR14212(B)] (ab181252)

All lanes : Anti-D4 GDI antibody [EPR14212(B)] (ab181252) at 1/10000 dilution

Lane 1 : Jurkat lysate

Lane 2 : U937 lysate

Lane 3 : HL60 lysate

Lane 4 : Human spleen lysate

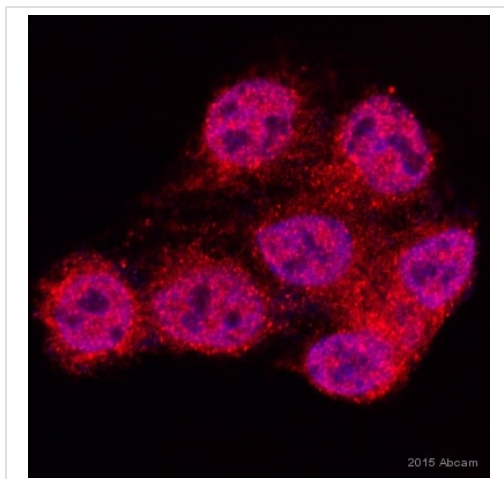
Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 22 kDa

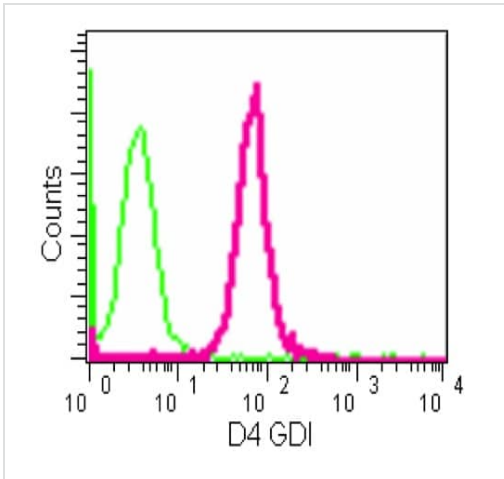
Additional bands at: 23 kDa. We are unsure as to the identity of these extra bands.



Immunocytochemistry/ Immunofluorescence - Anti-D4 GDI antibody [EPR14212(B)] (ab181252)

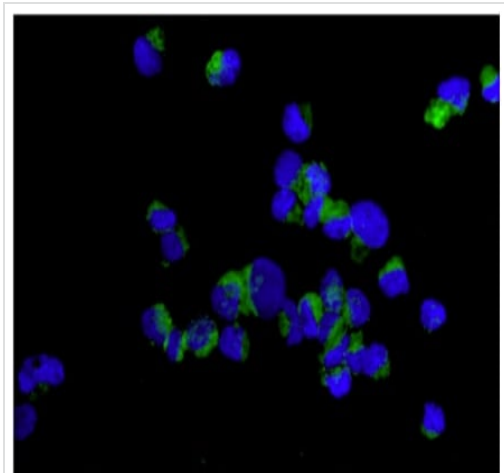
Image is courtesy of an Abreview submitted by Dr Armen Petrosyan.

Immunocytochemical immunofluorescence analysis of formaldehyde-fixed HEPG-2 cells, labelling D4 GDI with ab181252 at a dilution of 1/50 incubated for 3 hours at 22°C in 1% donkey serum in 0.1% PBST. Permeabilization was with 0.2% Triton X-100. Blocking was with 1% donkey serum in 0.1% PBST for 1 hour at 22°C. Secondary used was a Donkey anti-rabbit polyclonal Alexa Fluor® 594 conjugate used at 1/200.



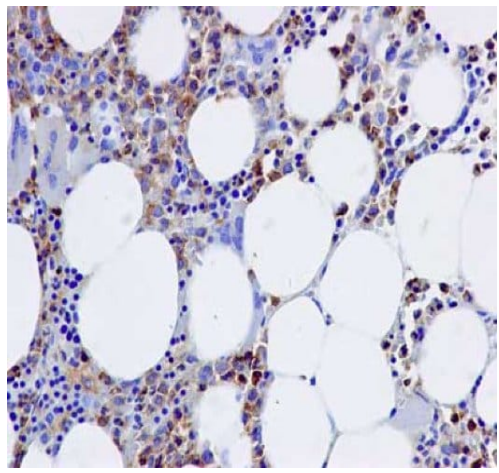
Flow Cytometry (Intracellular) - Anti-D4 GDI antibody [EPR14212(B)] (ab181252)

Intracellular flow cytometrical analysis of HL60 cells labeling D4 GDI with ab181252 at 1/70 (red) compared to a negative control antibody (green).



Immunocytochemistry/ Immunofluorescence - Anti-D4 GDI antibody [EPR14212(B)] (ab181252)

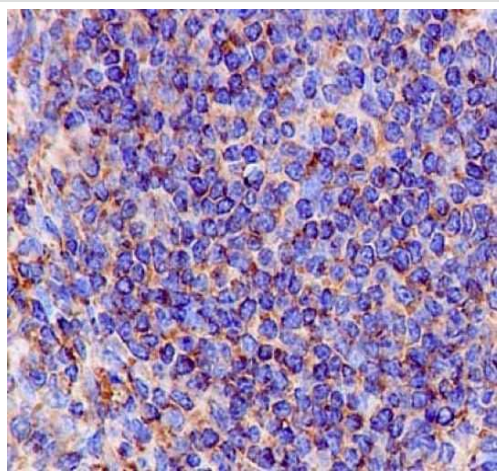
Immunofluorescent analysis of HL60 cells labeling D4 GDI with ab181252 at 1/100 (green) with Goat anti rabbit IgG (Alexa Fluor®488) at 1/200 and DAPI staining (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-D4 GDI antibody [EPR14212(B)] (ab181252)

Immunohistochemical analysis of paraffin embedded Human bone marrow tissue labeling D4 GDI with ab181252 at 1/500.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

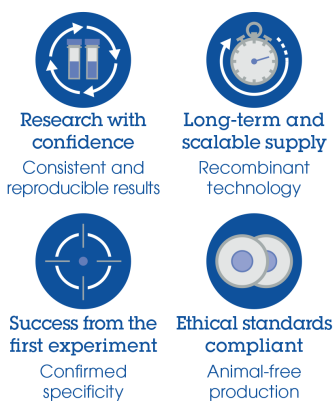


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-D4 GDI antibody [EPR14212(B)] (ab181252)

Immunohistochemical analysis of paraffin embedded Human tonsil tissue labeling D4 GDI with ab181252 at 1/500.

Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results

Long-term and scalable supply
Recombinant technology

Success from the first experiment
Confirmed specificity

Ethical standards compliant
Animal-free production

Anti-D4 GDI antibody [EPR14212(B)] (ab181252)

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