

Product datasheet

Anti-DARC antibody ab40821

★★★★☆ 3 Abreviews 2 Images

Overview

Product name	Anti-DARC antibody
Description	Goat polyclonal to DARC
Host species	Goat
Tested applications	Suitable for: Flow Cyt, IHC-P, WB
Species reactivity	Reacts with: Human Predicted to work with: Chimpanzee, Gorilla, Hoolock gibbon 
Immunogen	Synthetic peptide: C-HRAELSPSTENSSQLDFED , corresponding to N terminal amino acids 6-24 of Human DARC Run BLAST with Run BLAST with
Positive control	Human kidney and human liver lysates. Human kidney tissue sections.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 0.5% BSA, Tris buffered saline, pH 7.3
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab40821** in the following tested applications.

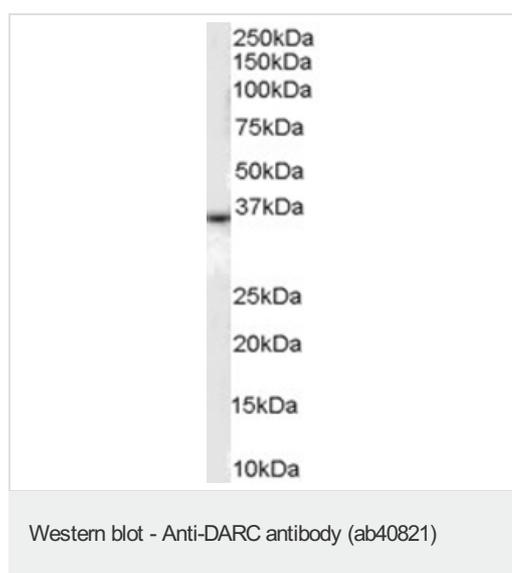
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt	★★★★☆	Use at an assay dependent concentration. (see Abreview for further details published on 3rd April, 2007).
ab37373 - Goat polyclonal IgG, is suitable for use as an isotype control with this antibody.		
IHC-P		Use a concentration of 3 µg/ml.
WB	★★★★☆	Use a concentration of 0.1 - 0.3 µg/ml. Detects a band of approximately 35 kDa (predicted molecular weight: 36 kDa).

Target

Function	Non-specific receptor for many chemokines such as IL-8, GRO, RANTES, MCP-1 and TARC. It is also the receptor for the human malaria parasites Plasmodium vivax and Plasmodium knowlesi.
Tissue specificity	Found in adult kidney, adult spleen, bone marrow and fetal liver. In particular, it is expressed along postcapillary venules throughout the body, except in the adult liver. Erythroid cells and postcapillary venule endothelium are the principle tissues expressing duffy. Fy(-A-B) individuals do not express duffy in the bone marrow, however they do, in postcapillary venule endothelium.
Sequence similarities	Belongs to the G-protein coupled receptor Duffy family.
Cellular localization	Membrane.

Images



Anti-DARC antibody (ab40821) at 0.1 µg/ml + Human liver lysate - (35µg protein in RIPA buffer).

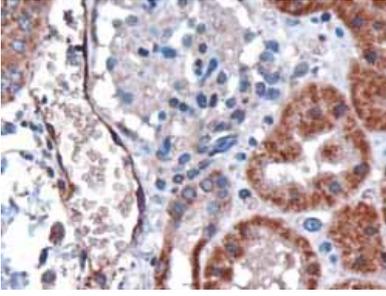
Secondary

anti-goat-HRP at 1/3000 dilution

Predicted band size: 36 kDa

Observed band size: 35 kDa

[why is the actual band size different from the predicted?](#)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DARC antibody (ab40821)

ab40821 at 3µg/ml staining DARC in human kidney tissue by Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections). Microwaved antigen retrieval using citrate buffer pH 6 was performed, HRP-staining.

This antibody stains epithelial cells of renal tubules and endothelial cells of vessels. The granular staining is compatible with the endoplasmic reticulum association of the protein. This antibody has also been successfully used on human lung tissue showing endothelial staining.

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