

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human DARC. Stains human DARC transfected cells but not irrelevant transfectants.
Source	Monoclonal Mouse IgG _{2A} Clone # 358307
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	HEK293 human embryonic kidney cell line transfected with human DARC Met1-Ser336 Accession # Q16570
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	Human blood erythrocytes

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Duffy Antigen Receptor for Chemokines (DARC), also known as Fy glycoprotein and CD234, is a 7TM non-signaling chemokine receptor that is expressed on venular endothelial cells and erythrocytes. DARC binds and mediates the internalization of several inflammatory CC and CXC chemokines. It transports chemokines to the luminal face of venular endothelium to promote the extravasation of leukocytes to sites of inflammation. DARC polymorphisms are important in blood transfusion compatibility and determine the susceptibility of erythrocytes to *Plasmodium vivax* infection. Human DARC shares 60% amino acid sequence identity with mouse DARC.

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