DARC Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DARC, Polyclonal Antibody
Full Product Name	DARC (Duffy Antigen/Chemokine Receptor, Fy Glycoprotein, GpFy, Glycoprotein D, Plasmodium Vivax Receptor, CD234, FY, GPD) (MaxLight 405)
Product Gene Name	anti-DARC antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human DARC. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	35,678 Da
OMIM	110700
3D Structure	ModBase 3D Structure for Q16570
Immunogen	Full length human DARC, aa1-336 (NP_002027.2).
Immunogen Sequence	MGNCLHRAELSPSTENSSQLDFEDVWNSSYGVNDSFPDGDYGANLEAAAPCHSCNLLDDSALPFFILTSVLGILASSTVLFMLFRPLFRWQLCPGWPVLA
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-DARC antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-DARC antibody	Western Blot (WB)
Application Notes for anti-DARC antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-DARC antibody	DARC, also known as the Duffy antigen/chemokine receptor, is a seven-transmembrane protein homologous to the classical chemokine G-protein coup as a tumor metastasis suppressor protein. It is thought that tumor cells dislodged from the primary tumor and expressing KAI1 interact with DARC prote

Other Notes	Small volumes of anti-DARC antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necess
Searchable Terms for DARC purchase	MBS6375638 is an antibody targeting DARC. Also known as DARC (Duffy Antigen/Chemokine Receptor, Fy Glycoprotein, GpFy, Glycoprotein D, Plasr

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DARC. It may not necessarily be applicable to this product.

NCBI GI #	42822887
NCBI GeneID	2532
NCBI Accession #	NP_002027.2
UniProt Primary Accession #	Q16570
UniProt Secondary Accession #	O75898; Q16300; Q8WWE3; Q9UJP0; Q9UKZ5; Q9UKZ6; Q9UQE1; A8YPG5
UniProt Related Accession #	Q16570
GenBank Nucleotide #	NM_002036
NCBI Official Full Name	atypical chemokine receptor 1 isoform b
NCBI Official Synonym Full Names	atypical chemokine receptor 1 (Duffy blood group)
NCBI Official Symbol	ACKR1
NCBI Official Synonym Symbols	FY; Dfy; GPD; DARC; GpFy; CCBP1; CD234; WBCQ1
UniProt Protein Name	Duffy antigen/chemokine receptor
UniProt Synonym Protein Names	Fy glycoprotein; GpFy; Glycoprotein D; Plasmodium vivax receptor
Protein Family	Darcynin
UniProt Gene Name	DARC
UniProt Synonym Gene Names	FY; GPD; GpFy
UniProt Entry Name	DUFFY_HUMAN
NCBI Protein Information	atypical chemokine receptor 1; glycoprotein D; Fy glycoprotein; Duffy blood group antigen; plasmodium vivax receptor; Duffy blood group, chemokine receptor; Duffy blood group, atypical chemokine receptor
NCBI Summary for DARC	The protein encoded by this gene is a glycosylated membrane protein and a non-specific receptor for several chemokines. The encoded protein is the receptor for the human malarial parasites Plasmodium vivax and Plasmodium knowlesi. Polymorphisms in this gene are the basis of the Duffy blood group system. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for DARC	DARC: 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. Belongs to the G-protein coupled receptor Duffy family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: GPCR, Duffy family; Receptor, GPCR; Membrane protein, integral; Membrane protein, multi-pass Chromosomal Location of Human Ortholog: 1q21-q22 Cellular Component: recycling endosome; early endosome; integral to membrane; plasma membrane Molecular Function: G-protein coupled receptor activity; transmembrane receptor activity; C-C chemokine binding; receptor activity Biological Process: G-protein coupled receptor protein signaling pathway; defense response; inflammatory response; regulation of chemokine production Disease: White Blood Cell Count Quantitative Trait Locus 1; Blood Group, Duffy System; Malaria, Susceptibility To
Research Articles on DARC	**1.** DARC facilitates CXCL1 inhibition of airway smooth muscle cell migration via modulation of the ERK-1/2 MAP kinase signaling pathway.
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