DARC Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	DARC, Polyclonal Antibody
Full Product Name	DARC (NT) (Duffy Antigen/Chemokine Receptor, Duffy Antigen/Chemokine Receptor, Fy Glycoprotein D, GpFy, Cell Adhesion Molecule 3, CADM3, Plasmodium Vivax Receptor,CCBP1, CD234, CD234 antigen, Dfy, GpFy, Plasmodium vivax receptor) (PE)
Product Gene Name	anti-DARC antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Detects CD234 in human brain PC-3 cell lysate at ~16kD.
Preparation and Storage	May be stored at 4 degree C for short-term only. For long-term storage and to avoid repeated freezing and thawing, aliquot and store at -20 degree C. Aliquots are stable for at least 12 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.
Molecular Weight	35,553 Da
Chromosome Location	Chromosome: 1; NC_000001.10 (159173803..159176290). Location: 1q21-q22
OMIM	110700
3D Structure	ModBase 3D Structure for Q16570
Immunogen	Synthetic peptide corresponding to18 aa sequence from near the amino terminus of Human CD234.
Conjugate	PE
Note	Preservative Free
Product Categories/Family for anti-DARC antibody	Antibodies; Receptors
Applications Tested/Suitable for anti-DARC antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-DARC antibody	IHC-P: 5ug/ml WB: 1-2ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-DARC antibody	MBS6471909 is an antibody targeting DARC. Also known as DARC (NT) (Duffy Antigen/Chemokine Receptor, Duffy Antigen/Chemokine Receptor, Fy Glycoprotein D, GpFy, Cell Adhesion Molecule 3, CADM3, Plasmodium Vivax Receptor,CCBP1, CD234, CD234 antigen, Dfy, GpFy, Plasmodium vivax receptor) (PE). Reactive in Human. Host: Rabbit.

Product References and Citations for anti-DARC antibody	1. Gardner, L., et al. (2004). The human Duffy antigen binds selected inflammatory but not homeostatic chemokines. Biochem. Biophys. Res. Commun. 321:306-12. 2. Chaudhuri, A., et al (1993) Cloning of glycoprotein D cDNA, which encodes the major subunit of the Duffy blood group system and the receptor for the Plasmodium vivax malaria parasite. PNAS 90:10793-7 3. Gil, M.L., et al. (1992) A member of the tetra spans transmembrane protein superfamily is recognized by a monoclonal antibody raised against an HLA class I-deficient, lymphokine-activated killer-susceptible, B lymphocyte line. Cloning and functional studies. J. Immunol. 148(9):2826-33.
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 necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

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

NCBI GI #	171846251
NCBI GeneID	2532
NCBI Accession #	NP_001116423.1
UniProt Primary Accession #	Q16570
UniProt Secondary Accession #	O75898; Q16300; Q8WWE3; Q9UJP0; Q9UKZ5; Q9UKZ6; Q9UQE1; A8YPG5
UniProt Related Accession #	Q16570
GenBank Nucleotide #	NM_001122951.2
NCBI Official Full Name	Duffy antigen/chemokine receptor isoform a
NCBI Official Synonym Full Names	Duffy blood group, chemokine receptor
NCBI Official Symbol	DARC
NCBI Official Synonym Symbols	FY; Dfy; GPD; 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	Duffy antigen/chemokine receptor; glycoprotein D; Fy glycoprotein; Duffy blood group antigen; plasmodium vivax 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.** Although lower, the risk of Duffy-negatives to experience a P. vivax blood stage infection was not significantly different to that of Duffy-positives.
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