10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Goat anti-Duffy / FY / DARC, Biotinylated Antibody

Peptide-affinity purified goat antibody
Catalog # AF4444a

Specification

Goat anti-Duffy / FY / DARC, Biotinylated Antibody - Product Information

Application	**WB, IHC, FC, Pep-ELISA**
Primary Accession	Q16570
Other Accession	NP_001116423.1, NP_002027.2
Reactivity	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**35553**

Goat anti-Duffy / FY / DARC, Biotinylated Antibody - Additional Information

Gene ID 2532

Other Names
ACKR1; atypical chemokine receptor 1 (Duffy blood group); CCBP1; CD234; DARC; Dfy; FY; GPD; GpFy; WBCQ1; Duffy antigen chemokine receptor; Duffy blood group antigen; Duffy blood group, atypical chemokine receptor; Duffy blood group, chemokine receptor; Fy

Dilution
WB~~1:1000
IHC~~1:100~500
FC~~1:10~50
Pep-ELISA~~N/A

Format
Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.

Immunogen
This antibody is expected to recognize both reported isoforms (NP_001116423.1; NP_002027.2).

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Goat anti-Duffy / FY / DARC, Biotinylated Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat anti-Duffy / FY / DARC, Biotinylated Antibody - Protein Information

Name ACKR1

Function
Atypical chemokine receptor that controls chemokine levels and localization via high-affinity chemokine binding that is uncoupled from classic ligand-driven signal transduction cascades, resulting instead in chemokine sequestration, degradation, or transcytosis. Also known as interceptor (internalizing receptor) or chemokine-scavenging receptor or chemokine decoy receptor. Has a promiscuous chemokine- binding profile, interacting with inflammatory chemokines of both the CXC and the CC subfamilies but not with homeostatic chemokines. Acts as a receptor for chemokines including CCL2, CCL5, CCL7, CCL11, CCL13, CCL14, CCL17, CXCL5, CXCL6, IL8/CXCL8, CXCL11, GRO, RANTES, MCP-1 and TARC. May regulate chemokine bioavailability and, consequently, leukocyte recruitment through two distinct mechanisms: when expressed in endothelial cells, it sustains the abluminal to luminal transcytosis of tissue-derived chemokines and their subsequent presentation to circulating leukocytes; when expressed in erythrocytes, serves as blood reservoir of cognate chemokines but also as a chemokine sink, buffering potential surges in plasma chemokine levels. (Microbial infection) Acts as a receptor for the malaria parasite Plasmodium knowlesi.

Cellular Location
Early endosome. Recycling endosome. Membrane; Multi-pass membrane protein. Note=Predominantly localizes to endocytic vesicles, and upon stimulation by the ligand is internalized via caveolae. Once internalized, the ligand dissociates from the receptor, and is targeted to degradation while the receptor is recycled back to the cell membrane

Tissue Location
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

Goat anti-Duffy / FY / DARC, Biotinylated Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Goat anti-Duffy / FY / DARC, Biotinylated Antibody - Images