RD SYSTEMS a biotechne brand

Human SCARA5 Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 673527 Catalog Number: FAB4900G

100 µg

Human
Detects human SCARA5 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse SCARA5 is observed.
Monoclonal Mouse IgG _{2B} Clone # 673527
Protein A or G purified from hybridoma culture supernatant
NS0 mouse myeloma cell line transfected with human SCARA5 Arg83-His495 Accession # Q6ZMJ2
Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.
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*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	See Below	



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BACKGROUND

Scavenger Receptor A5 (SCARA5), also known as Tesr, is a 70-75 kDa kDa member of the scavenger receptor "supergroup" of molecules. It is one of at least six class A members that possess a collagen-like domain and form intramembrane homotrimers (1,3). Class A scavenger receptors are type II transmembrane proteins. Mature human SCARA5 consists of a 60 amino acid (aa) cytoplasmic domain, a 21 aa transmembrane segment, and a 414 aa extracellular domain (ECD) with a spacer, a collagen-like, and a Scavenger Receptor Cysteine-Rich (SRCR) domain (3-6). Within the ECD, human SCARA5 shares 87% as sequence identity with mouse and rat SCARA5. Among other class A members, it shares 23%-34% aa sequence identity with CL-P1, MARCO, SCARA3, and SR-A1 in the ECD. Alternate splicing generates isoforms that lack the SRCR domain, the transmembrane segment, or the 225 as spacer region between the membrane and the collagen-like domain (6). SCARA5 is a cell surface disulfide-linked homotrimer of 200-210 kDa (5,7). It is highly expressed by a number of cell types, including testicular Sertoli cells, transitional epithelium, respiratory pseudostratified columnar epithelium, intestinal M cells, astrocytes, retinal ganglion cells, endothelial cells and likely intestinal Paneth cells (5, 8). SCARA5 binds heat-killed bacterial particles but not yeast particles or modified LDL (5). It is also recognized to bind and transport L (light)-ferritin across anatomical boundaries (8). Finally, SCARA5 has also been found in both nucleus and cytoplasm (8).

References:

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- 7. Li, J.Y. et al. (2009) Dev. Cell 16:35.
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