RD SYSTEMS a biotechne brand

Human Siglec-16 Alexa Fluor® 594-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 706045 Catalog Number: FAB68191T

100 µg

DESCRIPTION Species Reactivity Human Detects human Siglec-16 in direct ELISAs. In flow cytometry, detects human Siglec-16, but not human Siglec-11, in transfected HEK293 Specificity cells Source Monoclonal Mouse IgG2B Clone # 706045 Purification Protein A or G purified from hybridoma culture supernatant Immunogen Human Siglec-16 peptide Accession # A6NMB1 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.

*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	HEK293 Human Cell Line Transfected with Human Siglec-16 and eGFP

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. • 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Siglec-16 (Sialic acid-binding Ig-like lectin 16) is a 58-60 kDa member of the CD33-related SIGLEC family of proteins. It is expressed on macrophages and microglia, and based on Siglec-11, likely binds to an a2,8-linked sialic acid motif. Although Siglec-16 is assumed to have arisen from a Siglec-11 gene duplication and conversion, it is not an inhibitory receptor but an activating one, and possesses a transmembrane (TM) Lys that interacts with DAP12. Mature human Siglec-16 is a 465 amino acid (aa) type I TM glycoprotein. It contains a 418 aa extracellular region (aa 17-434) that shows one V-type (aa 19-122) plus three C2-type (aa 147-424) Ig-like domains, and a short 26 aa cytoplasmic tail. Notably, Siglec-16 exists as a pseudogene in approximately 50% of surveyed population. There is no Siglec-16 counterpart in either rodent or distant primate such as Rhesus monkey. The extracellular domain (ECD) of human Siglec-16 shares 94% aa identity with the ECD of human Siglec-11.

PRODUCT SPECIFIC NOTICES

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Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 **Canada** TEL 855 668 8722 **China** TEL +86 (21) 52380373 **Europe | Middle East | Africa** TEL +44 (0)1235 529449