

Human Siglec-16 Alexa Fluor® 700-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 706045

Catalog Number: FAB68191N

100 µg

DESCRIPTION

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|---------------------------|---|
| Species Reactivity | Human |
| Specificity | Detects human Siglec-16 in direct ELISAs. In flow cytometry, detects human Siglec-16, but not human Siglec-11, in transfected HEK293 cells. |
| Source | Monoclonal Mouse IgG _{2B} Clone # 706045 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | Human Siglec-16 peptide Accession # A6NMB1 |
| Conjugate | Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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

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|--------------------------------|--|
| 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. <ul style="list-style-type: none"> 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 α2,8-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.

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