

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Semaphorin 4C in direct ELISAs. Detects HEK293 human embryonic kidney cell line transfected with mouse Semaphorin 4C by Flow Cytometry. Does not detect untransfected or irrelevant transfected HEK293 cells.
Source	Monoclonal Rat IgG ₁ Clone # 663203
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse Semaphorin 4C Ala21-Phe664 Accession # Q64151
Conjugate	Alexa Fluor 350 Excitation Wavelength: 346 nm Emission Wavelength: 442 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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 embryonic kidney cell line transfected with mouse Semaphorin 4C 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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Sema4C (Semaphorin 4C; also Sema I and M-SemaF) is a 100-105 kDa, class IV member of the semaphorin family of proteins. It is expressed by precursors to neurons and myocytes, and may regulate their differentiation into mature forms. Mature mouse Sema4C is a type I transmembrane glycoprotein that is 814 amino acids (aa) in length. It contains a 644 aa extracellular region (aa 21-664) that is characterized by the presence of one Sema domain (aa 30-497), a PSI region (aa 499-552), and an Ig-like C2-type domain (aa 557-645). The cytoplasmic region interacts with PZD-domain containing proteins. Over aa 21-664, mouse Sema4C shares 85% and 95% aa identity with human and rat Sema4C, respectively.

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