

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Semaphorin 4C in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Semaphorin 3A, 3B, 3C, 3D, 3E, 3F, 4A, 4B, 4D, 4G, 5A, 5B, 6A, 6B, 6C, 6D, 7A, recombinant mouse Semaphorin 3B, 3C, 3E, 3F, 4A, 4B, 4C, 4D, 4F, 4G,
Source	Monoclonal Mouse IgG ₁ Clone # 660016
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Semaphorin 4C Ala21-Gly663 (predicted) Accession # Q9C0C4
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% 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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

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

Semaphorin 4C (Sema4C; 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 human Semaphorin 4C is a type I transmembrane glycoprotein that is 813 amino acids (aa) in length. It contains a 643 aa extracellular region (aa 21-663) that is characterized by the presence of one Sema domain (aa 30-497), a PSI region (aa 499-551), and an Ig-like C2-type domain (aa 556-644). The cytoplasmic region interacts with PZD-domain containing proteins. There are three potential splice variants. One demonstrates an alternative start site at Met324, a second shows a deletion of aa 173-211, and a third contains an 89 aa substitution for aa 1-36. Over aa 21-663, human Semaphorin 4C shares 85% aa identity with mouse Semaphorin 4C.

PRODUCT SPECIFIC NOTICES

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