

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Semaphorin 4C in direct ELISAs and Western blots. In direct ELISAs, less than 15% cross-reactivity with recombinant mouse (rm) Sema4C is observed and less than 5% cross-reactivity with recombinant human (rh) Sema4G, rhSema4D, rhSema4B and rh
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Semaphorin 4C Ala21-Gly663 Accession # Q9C0C4
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.
Immunohistochemistry	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

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 human Sema4C 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 Sema4C shares 85% aa identity with mouse Sema4C.

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