

#### DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	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
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human Semaphorin 4C Ala21-Gly663 Accession # Q9C0C4
<b>Conjugate</b>	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
<b>Formulation</b>	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.

<b>Western Blot</b>	Optimal dilution of this antibody should be experimentally determined.
<b>Immunohistochemistry</b>	Optimal dilution of this antibody should be experimentally determined.

#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	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.

#### PRODUCT SPECIFIC NOTICES

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