

#### DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse Sema-4F in ELISAs.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 780225
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant mouse Sema-4F Arg41-Gly667 Accession # Q9Z123
<b>Conjugate</b>	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 nm
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	Mouse cortical stem cells and bEnd.3 mouse endothelioma cell line

#### 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>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

#### BACKGROUND

Semaphorin 4F (Sema4F; also Sema W) is a 90-100 kDa, class IV member of the semaphorin family of proteins. It is expressed by select cell types, including Schwann cells and neurons, and likely acts as an inhibitor of cell proliferation by Schwann cells, and a regulator of postsynaptic glutamatergic synapses on neuron dendrites. Mature mouse Sema4F is a type I transmembrane protein that is 737 amino acids (aa) in length. It contains a 627 aa extracellular region (aa 41-667) that is characterized by the presence of one Sema domain (aa 71-493), a PSI region (aa 518-569), and a C2-type Ig-like domain (aa 586-641). Over aa 41-667, mouse Sema4F shares 92% and 98% aa identity with human and rat Sema4F, respectively.

#### PRODUCT SPECIFIC NOTICES

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