

**DESCRIPTION**

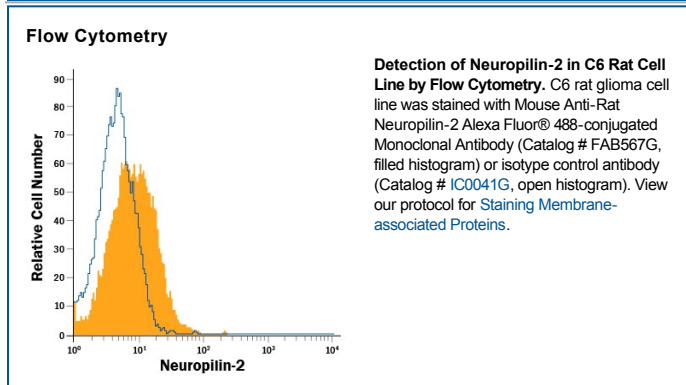
<b>Species Reactivity</b>	Rat
<b>Specificity</b>	Detects rat Neuropilin-2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody does not cross-react with recombinant human Neuropilin-1.
<b>Source</b>	Monoclonal Mouse IgG <sub>2B</sub> Clone # 96009
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant rat Neuropilin-2 Gln23-Asp857 (Val809-Asp825 del) Accession # O35276
<b>Conjugate</b>	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Formulation</b>	Supplied 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>	5 µL/10 <sup>6</sup> cells	See Below

**DATA**



**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> ● 12 months from date of receipt, 2 to 8 °C as supplied.

**BACKGROUND**

Neuropilin-2 (Npn-2), previously known as Npn-1-related molecule, is a 120-140 kDa type I transmembrane protein that belongs to the neuropilin family of molecules. It binds members of the class III secreted semaphorin subfamily (Sema3C and 3F), multiple VEGFs (VEGF<sub>145</sub>, VEGF<sub>165</sub>, VEGF-C and VEGF-D), PIGF, and HGF, and forms complexes with NRP1, Plexin A1,A2, A3, A4 and Plexin B1, plus VEGFR1, 2 and 3, and Integrin α6β1. The extracellular domain of these proteins is composed of two N-terminal CUB (complement-binding) domains (domains a1 and a2), two domains with homology to coagulation factors V and VIII (domains b1 and b2) and a MAM (mepirin) domain (domain c). In the absence of ligands, neuropilins can form homo- and hetero-oligomers via homophilic interactions of their MAM domains. At the amino acid (aa) sequence level, Npn-2 shares 96% and 94% aa sequence identity with mouse and human Neuropilin-2, respectively. The expression patterns of Npn-1 and Npn-2 in developing neurons of the central and peripheral nervous systems are largely, though not completely non-overlapping. Npn-2 is expressed by vascular and lymphatic endothelium plus tumor cells, and has been suggested to appear also on macrophages, GABAergic neurons and proximal convoluted tubule cells.

**PRODUCT SPECIFIC NOTICES**

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