

## DESCRIPTION

<b>Species Reactivity</b>	Rat
<b>Specificity</b>	Detects rat EphB1 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse EphA1, A3, A4, A6, A7, A8, B2, B3 or recombinant human EphA1, A2, A5, B4, or B6 is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 88512
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant rat EphB1 Met18-Gln538 Accession # P09759
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

## 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>	2.5 µg/10 <sup>6</sup> cells	NCI-H345 human small cell lung carcinoma cell line
<b>Immunocytochemistry</b>	8-25 µg/mL	Immersion fixed NCI-H345 human small cell lung carcinoma cell line

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

EphB1, also known as Elk, Cek6, Net, and Hek6, is a type I transmembrane receptor tyrosine kinase with two extracellular fibronectin type III domains. EphB1 binds Ephrin B1, B2, and B3 and plays an important role in nervous system development and axonal migration. Within the extracellular domain, rat EphB1 shares 99% amino acid sequence identity with human and mouse EphB1.