

DESCRIPTION

Species Reactivity	Rat
Specificity	Detects rat EphB1 in direct ELISAs.
Source	Monoclonal Mouse IgG _{2A} Clone # 917118
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant rat EphB1 Met1-Ser538 Accession # P09759
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

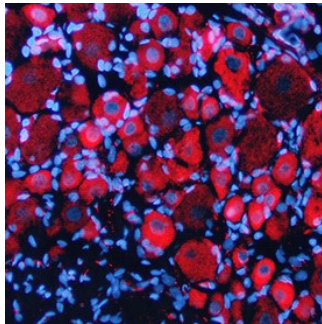
APPLICATIONS

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.

	Recommended Concentration	Sample
Immunohistochemistry	8-25 µg/mL	See Below

DATA

Immunohistochemistry



EphB1 in Rat Brain. EphB1 was detected in perfusion fixed frozen sections of rat brain (dorsal root ganglia) using Mouse Anti-Rat EphB1 Monoclonal Antibody (Catalog # MAB5422) at 25 µg/mL overnight at 4 °C. Tissue was stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm in small-sized neurons. View our protocol for [Fluorescent IHC Staining of Frozen Tissue Sections](#).

PREPARATION AND STORAGE

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

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.