

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Plexin B1 in direct ELISAs and Western blots. In direct ELISAs, less than 1% cross-reactivity with recombinant human Plexin B3 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human Plexin B1 Leu35-Val150 Accession # O43157
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 either lyophilized or 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
Western Blot	0.1 µg/mL	Recombinant Human Plexin B1
Immunohistochemistry	5-15 µg/mL	Immersion fixed paraffin-embedded sections of human prostate

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 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

Plexin B1 is a type I transmembrane protein that belongs to the Plexin family of semaphorin receptors. It is derived from a single peptide that undergoes proteolytic processing in its extracellular domain to form the non-covalently-linked heterodimer of the extracellular α subunit and the transmembrane β subunit. Human Plexin B1 extracellular α subunit shares homology with semaphorins, HGF receptor and MSP receptor and contains a sema domain and three IPT/TIG domains. It functions as a receptor for semaphorin 4D/CD100. Multiple splice isoforms of Plexin B1 have been reported. Within the region used as immunogen, human Plexin B1 shares 90% and 97% amino acid sequence homology with mouse and canine Plexin B1, respectively.