

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Plexin C1 in Western blots. In Western blots, less than 1% cross-reactivity with recombinant mouse Plexin A1, A2, A3, recombinant human Plexin B1, B2, and D1 is observed.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Plexin C1 Ala35-Thr950 Accession # Q9QZC2
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. 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.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Mouse Plexin C1 (Catalog # 5375-PC)

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.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <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 C1 (also VESPR and CD232) is a 200-210 kDa member of the plexin C subfamily, plexin family of proteins. It is a type I transmembrane glycoprotein that is found on monocytes, dendritic cells, neutrophils and embryonic neuroendocrine neurons of the hypothalamus. Plexin C1 binds Sema7A, and its viral counterpart, vaccinia semaphorin A39R. Ligation induces actin cytoskeletal rearrangement and cell immobilization. Mature mouse Plexin C1 is 1540 amino acids (aa) in length. It contains a 916 aa extracellular domain that shows one Sema-domain (aa 35-452) and a 603 aa cytoplasmic tail. There are two potential splice variants that show a five and 67 aa substitution for aa 861-870 and 1206-1574, respectively. Over aa 35-950, mouse Plexin C1 is 95% and 85% aa identical to rat and human Plexin C1, respectively.