

DESCRIPTION

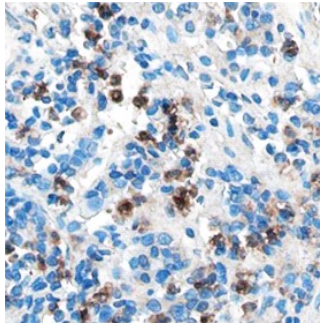
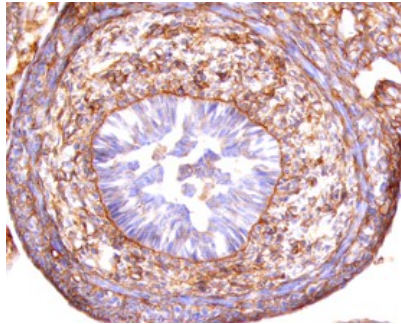
Species Reactivity	Human/Mouse
Specificity	Detects human Plexin C1 in direct ELISAs and Western blots. In direct ELISAs and Western blots, no cross-reactivity with recombinant human Plexin A4, B1, B2, B3, D1, recombinant mouse Plexin A1, A2, or A3 is observed.
Source	Monoclonal Mouse IgG _{2B} Clone # 544232
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Plexin C1 Ile49-Ser161 Accession # O60486
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
Immunohistochemistry	8-25 µg/mL	See Below

DATA

<p>Immunohistochemistry</p>  <p>Plexin C1 in Human Melanoma. Plexin C1 was detected in immersion fixed paraffin-embedded sections of human melanoma using Mouse Anti-Human Plexin C1 Monoclonal Antibody (Catalog # MAB3887) at 15 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heat-induced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.</p>	<p>Immunohistochemistry</p>  <p>Plexin C1 in Mouse Embryo. Plexin C1 was detected in immersion fixed frozen sections of mouse embryonic gut (12 d.p.c.) using Mouse Anti-Human Plexin C1 Monoclonal Antibody (Catalog # MAB3887) at 25 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to plasma membranes. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.</p>
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PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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 C1 (also VESPR and CD232) is a 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 and neutrophils. Plexin C1 binds Sema7A, and its viral counterpart, vaccinia semaphorin A39R. Ligation induces actin cytoskeletal rearrangement and cell immobilization. Mature human Plexin C1 is 1534 amino acids (aa) in length. It contains a 910 aa extracellular domain (ECD) and a 603 aa cytoplasmic region. The ECD contains one Sema-domain (aa 49-440), two PSI domains (aa 454-605) and two IPT regions (aa 664-842). Over aa 49-161, human Plexin C1 shares 92% aa identity with mouse Plexin C1.