

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
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Immunohistochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

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