

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects mouse Plexin A2 in direct ELISAs and Western blots. In direct ELISAs, no cross-reactivity with recombinant human Plexin A4, B1, B2, D1, recombinant mouse Plexin A1, A3, B3, or C1 is observed.
Source	Monoclonal Rat IgG _{2B} Clone # 583603
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant mouse Plexin A2 Met35-Pro1237 Accession # P70207
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunocytochemistry	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 A2 (also OCT) is a 220-230 kDa member of the plexin-A subfamily, plexin family of proteins. It is found on cerebellar granule cells, sensory neurons, and cardiac neural crest cells. It participates in cell migration and axon guidance, and does so by serving as a receptor for Sema6A and B, and as a coreceptor with neuropilin-1 for Sema3A and C. Mature mouse Plexin A2 is an 1860 amino acid (aa) type I transmembrane glycoprotein. It contains a 1203 aa extracellular domain (ECD) and a 636 aa cytoplasmic region. The ECD contains one Sema domain (aa 35-508), three PSI domains (aa 510-855) and four IPT regions (aa 858-1228). There is one alternate start site 10 aa upstream of the standard start site. Over aa 35-1237, mouse Plexin A2 shares 96% aa sequence identity with human Plexin A2.

PRODUCT SPECIFIC NOTICES

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