

DESCRIPTION

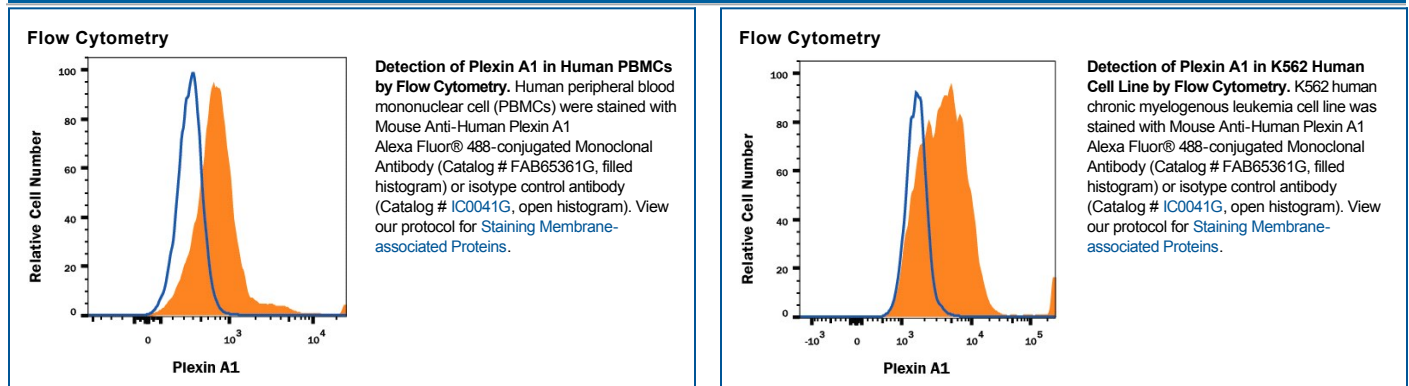
Species Reactivity	Human
Specificity	Detects human Plexin A1 in direct ELISA.
Source	Monoclonal Mouse IgG _{2B} Clone # 708954
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human Plexin A1 Tyr964-Leu1152 Accession # Q9UIW2
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *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.

	Recommended Concentration	Sample
Flow Cytometry	5 µL/10 ⁶ cells	See Below

DATA



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. <ul style="list-style-type: none"> ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Plexin A1, also known as NOV, is an approximately 250 kDa type I transmembrane glycoprotein member of the Plexin family of Semaphorin signal transducers. It consists of a 1218 amino acid (aa) extracellular region with one Sema domain, a spacer, and four tandem IPT/TIG domains, a 21 aa transmembrane segment, and a 631 aa cytoplasmic domain. Plexin A1 binds the transmembrane Semaphorin 6D, directly and binds the Class 3 secreted Semaphorins indirectly via Neuropilin-1 and -2. It mediates cytoskeletal remodeling that results in cell migration and neuronal axon repulsion. Within aa 964-1152 (in the IPT/TIG region), human Plexin A1 shares 93% aa sequence identity with mouse and rat Plexin A1.

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