

Human Plexin A1 Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 708954

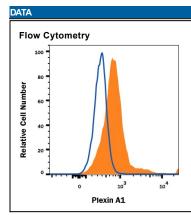
Catalog Number: FAB65361G

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	E. coli-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.		

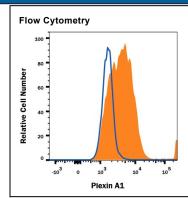
APPLICATIONS

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



Detection of Plexin A1 in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cell (PBMCs) were stained with Mouse Anti-Human Plexin A1
Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # FAB65361G, filled histogram) or isotype control antibody (Catalog # IC0041G, open histogram). View our protocol for Staining Membrane-associated Proteins.



Detection of Plexin A1 in K562 Human Cell Line by Flow Cytometry. K562 human chronic myelogenous leukemia cell line was stained with Mouse Anti-Human Plexin A1 Alexa Fluor® 488-conjugated Monoclonal Antibody (Catalog # FAB65361G, filled histogram) or isotype control antibody (Catalog # IC0041G, open histogram). View our protocol for Staining Membrane-associated Proteins.

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 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.

PRODUCT SPECIFIC NOTICES

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Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956 USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373 Europe | Middle East | Africa TEL +44 (0)1235 529449