

Human Plexin A1 Antibody

Monoclonal Mouse IgG_{2B} Clone # 708954 Catalog Number: MAB65361

DESCRIPTION		
Species Reactivity	Human	
Specificity	Detects human Plexin A1 in direct ELISAs.	
Source	Monoclonal Mouse IgG _{2B} Clone # 708954	
Purification	Protein A or G purified from hybridoma culture supernatant	
Immunogen	ogen E. coli-derived recombinant human Plexin A1 Tyr964-Leu1152 Accession # Q9UIW2	
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.	

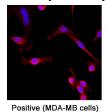
APPLICATIONS

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
Immunocytochemistry	3-25 μg/mL	See Below

DATA

Immunocytochemistry





Negative (Daudi cells)

Detection of Plexin A1 in MDA-MB-231 cells and Daudi cells. Plexin A1 was detected in immersion fixed MDA-MB-231 human breast cancer cell line (Positive) and absent in Daudi human Burkitt's lymphoma cell line (Negative) using Mouse Anti-Human Plexin A1 Monoclonal Antibody (Catalog # MAB65361) at 3 µg/ml for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to the cell surface. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution Reconstitute at 0.5 mg/mL in sterile PBS. For liquid material, refer to CoA for concentration.

Shipping Lyophilized product is shipped at ambient temperature. Liquid small pack size (-SP) is shipped with polar packs. Upon receipt, store immediately at the temperature recommended below.

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 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 A1 is an approximately 200 kDa type I transmembrane member of the Plexin family of Semaphorin signal transducers. It consists of a 1218 amino acid (aa) extracellular domain 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 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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