

Datasheet for ABIN2665329 **anti-Plexin B2 antibody**

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Overview

Quantity:	50 µg
Target:	Plexin B2 (PLXNB2)
Reactivity:	Mouse
Host:	Armenian Hamster
Clonality:	Monoclonal
Conjugate:	This Plexin B2 antibody is un-conjugated
Application:	Intracellular Flow Cytometry (ICFC)

Product Details

Clone:	3E7
Isotype:	IgG
Purification:	The antibody was purified by affinity chromatography.

Target Details

Target:	Plexin B2 (PLXNB2)
Alternative Name:	Plexin B2 (PLXNB2 Products)
Background:	Plexin B2 is a 240 kD transmembrane receptor belonging to the semaphorin receptor family, B subfamily. All the family members share an extracellular semaphorin domain and an intracellular plexin domain-containing tail that can mediate intracellular signaling. Distinct from the other subfamily members, Plexin B2 contains an intracellular domain with a PDZ motif (post synaptic density protein (PSD95), Drosophila disc large tumor suppressor (DlgA), and zonula

Target Details

occludens-1 protein (zo-1)), which can relay extracellular signals to intracellular motifs. Similar to the other B family members, Plexin B2 was also originally found in the nervous system and was later reported on endocrine, reproductive, urinary, digestive, respiratory, and immune systems. In immune cells, Plexin B2 is highly expressed on macrophages, conventional dendritic cells (cDCs), and plasmacytoid dendritic cells (pDCs). It is also expressed on T cells and T-dependent germinal center B cells. Plexin B2 facilitates ligand induced cell guidance and migration in the nervous system, and induces cytoskeletal changes in overexpression assays through RhoGTPase. However, the function of Plexin B2 in the immune system is not conclusive. Plexin B2 has been reported to modulate upon activation of DCs by TLR ligands, TNF- α , and anti-CD40. It also functions as a negative regulator of Rac and Cdc42 and modulates cell motility in macrophages. Plexin B2 has been found to have several semaphorin ligands including Semaphorin-3E, Semaphorin-4A, Semaphorin-4C, and Semaphorin-4D.

Pathways: [Tube Formation](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Concentration: 0.5 mg/mL

Buffer: Phosphate-buffered solution, pH 7.2, containing 0.09 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Storage Comment: The antibody solution should be stored undiluted between 2°C and 8°C.