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Anti-Plexin D1 (C-terminal region) Antibody

Catalog # AN1917

Product Information

Application	WB
Primary Accession	Q9Y4D7
Host	Rabbit
Clonality	Rabbit Polyclonal
Isotype	IgG
Calculated MW	212007

Additional Information

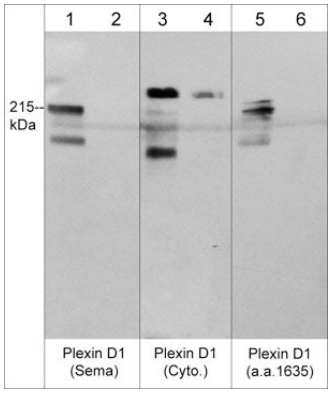
Gene ID	23129
Other Names	PLXND1, Sema3E
Dilution	WB~~1:1000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-Plexin D1 (C-terminal region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

Background

Plexins are a family of large integral membrane proteins that complex with neuropilins to form semaphorin co-receptors. The extracellular region of plexins contains a semaphorin domain, multiple glycine-rich motifs, and MET-related sequences. The cytoplasmic region contains a Sex/Plexin domain and putative tyrosine phosphorylation sites that mediate signal transduction after activation. Plexin D1 is a type I transmembrane protein that may be expressed as multiple isoforms in many cell types, including neurons and endothelial cells. Semaphorin 3E (Sema-3E) and semaphorin 4A can bind Plexin D1, and ligand binding leads to phosphorylation of Tyr-1642 and activation of Plexin D1. Sema-3E and its receptor are important for angiogenesis that occurs during blood vessel development and repair. In cancers, Sema-3E and Plexin D1 are expressed in tumor tissues and cancer cells, and the interaction of these molecules may promote cancer cell migration and metastic spreading. Thus, Plexin D1, and its ligand Sema-3E, may be important regulators of angiogenesis and metastasis.

Images

Western blot analysis of Plexin D1 expression in human endothelial cells (HUVEC) (lanes 1-6). The blots were probed with rabbit polyclonals anti-Plexin D1 (Sema domain) (lanes 1 & 2), anti-Plexin D1 (Cytoplasmic



domain) (lanes 3 & 4), and anti-Plexin D1 (a.a. 1635-1647) (lanes 5 & 6). Each antibody was used in the presence of their respective blocking peptide (lanes 2, 4 & 6).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.