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Anti-Semaphorin-4D (C-terminal region) Antibody

Catalog # AN1948

Product Information

Application	WB, ICC
Host	Mouse
Clonality	Mouse Monoclonal
Isotype	IgG1
Clone Names	M188

Additional Information

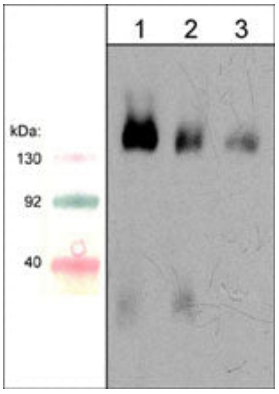
Other Names	CD100, Sema4D, SemaIVD
Dilution	WB~~1:1000 ICC~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-Semaphorin-4D (C-terminal region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

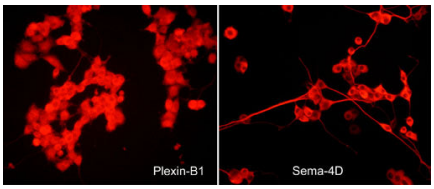
Background

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. In addition, Plexin B1 and B2 contain cleavage sites for subtilisin-like proprotein convertases. These cleavage sites may be important for regulating assembly of heterodimeric receptors or release of the extracellular domain. Plexin-B1 is expressed as a 300 kDa precursor protein that can be cleaved into a 200 kDa a-subunit and 100 kDa b-subunit. This plexin is the receptor for the class IV semaphorin, Sema-4D. Sema-4D activation of Plexin B1 recruits and activates c-Met, which can promote cell survival, migration, and angiogenesis.

Images

Western blot image of mouse brain lysate. The blot was probed with mouse monoclonal Semaphorin-4D antibody (AN1948) at 1:250 (lane 1), 1:500 (lane 2), and 1:1000 (lane 3).





Immunocytochemical labeling in rat PC12 cells differentiated with NGF. The cells were probed with rabbit polyclonal Plexin B1 (PP1841) and mouse monoclonal Sema-4D (AN1948) antibodies, then the antibodies were detected using appropriate secondary antibody conjugated to DyLight® 594.