

Anti-Robo2 (C-terminal region) Antibody

Catalog # AN1940

Product Information

Application	WB
Primary Accession	Q9HCK4
Host	Rabbit
Clonality	Rabbit Polyclonal
Isotype	IgG
Calculated MW	151200

Additional Information

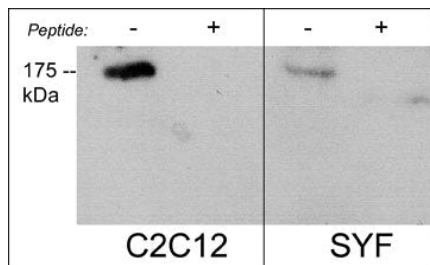
Gene ID	6092
Other Names	Roundabout homolog 2, ROBO2, KIAA1568
Dilution	WB~~1:1000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Anti-Robo2 (C-terminal region) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.
Shipping	Blue Ice

Background

The Robo family of repulsive guidance receptors (Robo1-4) have important roles in controlling axon guidance and cell migration. These receptors are members of the immunoglobulin (Ig) superfamily and consist of an ectodomain with five Ig domains and three fibronectin type III repeats, a single transmembrane domain, and a long cytoplasmic tail that contains four blocks of conserved cytoplasmic sequences. In *Drosophila*, mutations in Robo, and its midline-expressed ligand Slit, result in too many axons crossing and staying at the midline. Several proteins that regulate the actin cytoskeleton, including cAbl, Ena, and Rho-family GTPases, contribute to the Robo signaling pathway. cAbl phosphorylates Robo1 at Tyr-1073, and this may inhibit Robo activity, while Slit-Robo signaling activates both Rac and Rho, and inactivates Cdc42. Thus, Robo guidance receptors control axon outgrowth and cell migration through activation of cell signaling pathways that regulate cytoskeletal dynamics.

Images

Western blot analysis of C2C12 and SYF mouse cell lines. The blots were probed with anti-Robo2 (C-terminal region) in the absence (-) or presence (+) of Robo2 (C-terminal region) blocking peptide (RX2865).



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