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Datasheet for ABIN5515113

anti-ROBO3 antibody (C-Term)



Overview

Quantity:	100 μL
Target:	ROBO3
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ROBO3 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C-terminal region of Human ROBO3
Sequence:	HPSRSPSAQE PRGSCCPSNP DPDDRYYNEA GISLYLAQTA RGTAAPGEGP
Characteristics:	This is a rabbit polyclonal antibody against ROBO3. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	ROBO3
Alternative Name:	ROBO3 (ROBO3 Products)
Background:	This gene is a member of the Roundabout (ROBO) gene family that controls neurite outgrowth,
	growth cone guidance, and axon fasciculation. ROBO proteins are a subfamily of the

immunoglobulin transmembrane receptor superfamily. SLIT proteins 1-3, a family of secreted chemorepellants, are ligands for ROBO proteins and SLIT/ROBO interactions regulate myogenesis, leukocyte migration, kidney morphogenesis, angiogenesis, and vasculogenesis in addition to neurogenesis. This gene, ROBO3, has a putative extracellular domain with five immunoglobulin (Ig)-like loops and three fibronectin (Fn) type III motifs, a transmembrane segment, and a cytoplasmic tail with three conserved signaling motifs: CC0, CC2, and CC3 (CC for conserved cytoplasmic). Unlike other ROBO family members, ROBO3 lacks motif CC1. The ROBO3 gene regulates axonal navigation at the ventral midline of the neural tube. In mouse, loss of Robo3 results in a complete failure of commissural axons to cross the midline throughout the spinal cord and the hindbrain. Mutations ROBO3 result in horizontal gaze palsy with progressive scoliosis (HGPPS), an autosomal recessive disorder characterized by congenital absence of horizontal gaze, progressive scoliosis, and failure of the corticospinal and somatosensory axon tracts to cross the midline in the medulla. Alternative transcript variants have been described but have not been experimentally validated.

Alias Symbols: ROBO3,

Protein Interaction Partner: CCDC57, LNX1, RBMX, MTUS2, Zswim8, APOA1, NEDD4L, UBC,

Protein Size: 1386

Gene ID:	64221
NCBI Accession:	NP_071765
UniProt:	Q96MS0

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide

Handling

Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.