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Datasheet for ABIN7270111
anti-ROBO3 antibody (AA 1-147)

1 Image

Overview

Quantity:	100 µL
Target:	ROBO3
Binding Specificity:	AA 1-147
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ROBO3 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	ROBO3 Rabbit pAb
Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-147 of human ROBO3 (NP_071765.2).
Sequence:	MLRYLLKTLL QMNLFADSLA GDISNSSELL LGFNSSLAAL NHTLLPPGDP SLNGSRVGPE DAMPRIVEQP PDLLVSRGEP ATLPCRAEGR PRPNIEWYKN GARVATVRED PRAHRLLLPS GALFFPRIVH GRRARPDEGV YTCVARN
Isotype:	IgG
Cross-Reactivity:	Human
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	ROBO3
Alternative Name:	ROBO3 (ROBO3 Products)
Background:	<p>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.</p> <p>ROBO3,HGPPS,HGPS,RBIG1,RIG1,Cancer,Tumor suppressors,Signal Transduction,Immunology & Inflammation,Toll-like Receptor Signaling Pathway,Neuroscience,ROBO3</p>
Molecular Weight:	110kDa/148kDa
Gene ID:	64221
UniProt:	Q96MS0

Application Details

Application Notes:	WB,1:500 - 1:2000
Restrictions:	For Research Use only

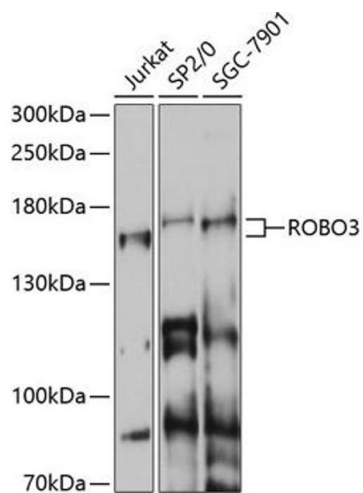
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Handling

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:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using ROBO3 antibody (ABIN7270111) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 60s.