

Datasheet for ABIN129628
anti-SLIT2 antibody (AA 475-500)



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1 Image

Overview

Quantity:	100 µg
Target:	SLIT2
Binding Specificity:	AA 475-500
Reactivity:	Human, Chicken
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Purpose:	SLIT2 Antibody
Immunogen:	Immunogen: This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding aa 475-500 of Human SLIT-2 protein. Immunogen Type: Conjugated Peptide
Isotype:	IgG
Cross-Reactivity (Details):	This affinity purified antibody is directed against human SLIT-2 protein.
Characteristics:	Synonyms: rabbit anti-SLIT-2 antibody, SLIT2, SLIT 2, Slit homolog 2 protein, SLIL3, SLIL-3 antibody
Purification:	The product was affinity purified from monospecific antiserum by immunoaffinity purification.
Sterility:	Sterile filtered

Target Details

Target:	SLIT2
Alternative Name:	SLIT2 (SLIT2 Products)
Background:	<p>Background: SLIT-2 is thought to act as a molecular guidance cue in cellular migration, and its function appears to be mediated by interaction with roundabout homologue receptors. SLIT-1 and SLIT-2 seem to be essential for midline guidance in the forebrain by acting as repulsive signals preventing inappropriate midline crossing by axons projecting from the olfactory bulb. In spinal chord development SLIT-2 may play a role in guiding commissural axons once they reach the floor plate by modulating the response to netrin. In vitro, SLIT-2 silences the attractive effect of NTN1 but not its growth-stimulatory effect and silencing requires the formation of a ROBO1-DCC complex. In vitro, only commissural axons that crossed the midline responded to SLIT-2. In the developing visual system this protein functions as a repellent for retinal ganglion axons by providing a repulsion that directs these axons along their appropriate paths prior to, and after passage through, the optic chiasm. SLIT-2 is a secreted protein predominantly expressed in fetal lung and kidney, and adult spinal cord. Weak expression is observed in adult adrenal gland, thyroid, trachea and other tissues examined. Multiple isoforms have been reported for this product.</p>
Gene ID:	9353, 4759146
UniProt:	O94813
Pathways:	Regulation of Actin Filament Polymerization , Regulation of Cell Size , Smooth Muscle Cell Migration

Application Details

Application Notes:	<p>Immunohistochemistry Dilution: 2 µg/mL</p> <p>Application Note: This affinity purified antibody has been tested for use in ELISA, IHC, and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band at ~ 165 kDa corresponding to full-length protein by western blotting in the appropriate cell lysate or extract. For western blotting block the membrane with goat serum. Do not block with non-fat dry milk.</p> <p>Western Blot Dilution: 1:500 - 1:2,000</p> <p>ELISA Dilution: 1:5,000 - 1:50,000</p> <p>Other: User Optimized</p>
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.0 mg/mL
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
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:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

Images



Western Blotting

Image 1. Western blot using Affinity Purified anti-SLIT-2 antibody shows detection of a band at ~165 kDa (lane 1) corresponding to SLIT-2 present in a chicken spinal cord whole cell lysate (arrowhead). Approximately 30 µg of lysate was separated on a 4-20% Tris-Glycine gel by SDS-PAGE and transferred onto nitrocellulose. After blocking the membrane was probed with the primary antibody diluted to 1:1,350. Reaction occurred overnight at 4° C followed by washes and reaction with a 1:10,000 dilution of IRDye800 conjugated Gt-a-Rabbit IgG [H&L] MX for 45 min at room temperature (800 nm channel, green). Molecular weight estimation was made by comparison to prestained MW markers in lane M (700 nm channel, red). 800 fluorescence image was captured using the Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc.

Other detection systems will yield similar results.