

Product datasheet for **TA319177**

SLIT2 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:1,500 - 1:6,000, WB: 1:500 - 1:2,000
Reactivity:	Human, Chicken
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding aa 484-500 of Human SLIT-2 protein.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	slit guidance ligand 2
Database Link:	NP_004778 Entrez Gene 9353 Human O94813
Synonyms:	SLIL3; Slit-2



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Note: 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.

Protein Families: Druggable Genome, Secreted Protein

Protein Pathways: Axon guidance

Product images:



WB using 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). 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 RT. Molecular weight estimation was made by comparison to prestained MW markers in lane M (700 nm channel, red).