Product Name: Robo2 Rabbit Polyclonal Antibody
Catalog #: APRab17307

Summary

Production Name	Robo2 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	ROBO2
Alternative Names	ROBO2; KIAA1568; Roundabout homolog 2
Gene ID	6092.0
SwissProt ID	Q9HCK4.The antiserum was produced against synthesized peptide derived from human ROBO2. AA range:237-286

Application

Dilution Ratio	IHC 1:100-1:300 ELISA: 1:40000
Molecular Weight	

Background

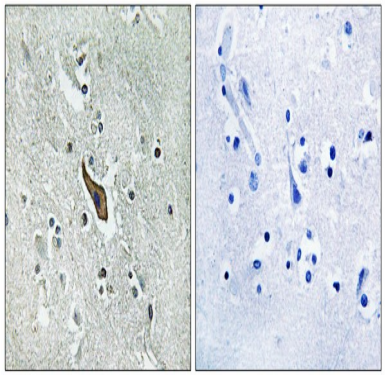
The protein encoded by this gene belongs to the ROBO family, part of the immunoglobulin superfamily of proteins that are

highly conserved from fly to human. The encoded protein is a transmembrane receptor for the slit homolog 2 protein and functions in axon guidance and cell migration. Mutations in this gene are associated with vesicoureteral reflux, characterized by the backward flow of urine from the bladder into the ureters or the kidney. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014],disease:A chromosomal aberration involving ROBO2 is a cause of multiple congenital abnormalities, including severe bilateral VUR with ureterovesical junction defects. Translocation t(Y;3) (p11;p12) with PCDH11Y. This translocation disrupts ROBO2 and produces dominant-negative ROBO2 proteins that abrogate SLIT-ROBO signaling in vitro.,disease:Defects in ROBO2 are the cause of vesicoureteral reflux type 2 (VUR2) [MIM:610878]. VUR is a complex, genetically heterogeneous developmental disorder characterized by the retrograde flow of urine from the bladder into the ureter and is associated with reflux nephropathy, the cause of 15% of end-stage renal disease in children and young adults.,function:Receptor for SLIT2, and probably SLIT1, which are thought to act as molecular guidance cue in cellular migration, including axonal navigation at the ventral midline of the neural tube and projection of axons to different regions during neuronal development.,similarity:Belongs to the immunoglobulin superfamily. ROBO family.,similarity:Contains 3 fibronectin type-III domains.,similarity:Contains 5 Ig-like C2-type (immunoglobulin-like) domains.,subunit:Interacts with SLIT2.,

Research Area

Axon guidance;

Image Data



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using ROBO2 Antibody. The picture on the right is blocked with the synthesized peptide.

Note

For research use only.