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Datasheet

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Catalog Number	GTX118220 Package:25 ul,100 ul (2)
Product Name	SLIT2 antibody
Full Name	slit homolog 2 (Drosophila)
Synonyms	FLJ14420 antibody, SLIL3 antibody, Slit-2 antibody, SLIT2 antibody, slit homolog 2 protein antibody, slit homolog 2 (Drosophila) antibody
Background	Thought to act as molecular guidance cue in cellular migration, and function appears to be mediated by interaction with roundabout homolog receptors. During neural development involved in axonal navigation at the ventral midline of the neural tube and projection of axons to different regions. SLIT1 and SLIT2 seem to be essential for midline guidance in the forebrain by acting as repulsive signal preventing inappropriate midline crossing by axons projecting from the olfactory bulb. In spinal chord development may play a role in guiding commissural axons once they reached the floor plate by modulating the response to netrin. In vitro, silences the attractive effect of NTN1 but not its growth-stimulatory effect and silencing requires the formation of a ROBO1-DCC complex. May be implicated in spinal chord midline post-crossing axon repulsion. In vitro, only commissural axons that crossed the midline responded to SLIT2. In the developing visual system appears to function as 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. In vitro, collapses and repels retinal ganglion cell growth cones. Seems to play a role in branching and arborization of CNS sensory axons, and in neuronal cell migration. In vitro, Slit homolog 2 protein N-product, but not Slit homolog 2 protein C-product, repels olfactory bulb (OB) but not dorsal root ganglia (DRG) axons, induces OB growth cones collapse and induces branching of DRG axons. Seems to be involved in regulating leukocyte migration.
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Immunogen	Recombinant protein encompassing a sequence within the center region of human SLIT2. The exact sequence is proprietary.
Antigen Species	Human
Species Reactivity	Human, Mouse, Rat
Predicted Cross Reactivity species	Zebrafish, Xenopus laevis, Chicken, Bovine
Predict Reactivity Note	Zebrafish (88%), Xenopus laevis (93%), Chicken (97%), Bovine (99%)
Applications	IHC-P, IP, WB

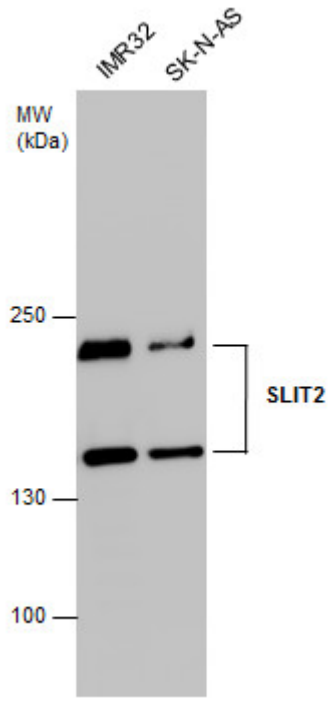
Application Note		Suggested dilution	Reference
	IHC (Formalin-fixed paraffin-embedded sections)	1:100-1:1000*	
	Immunoprecipitation	1:100-1:500*	
	Western Blot (WB)	1:500-1:10000*	
	Not tested in other applications.		
	*Optimal dilutions/concentrations should be determined by the researcher.		

Positive Controls	IMR32 , SK-N-AS , mouse brain , rat brain , SLIT2-transfected 293T
Predicted Target Size	170 kDa
Cellular Localization	Secreted
Conjugation	Unconjugated
Form Supplied	Liquid
Purification	Purified by antigen-affinity chromatography.

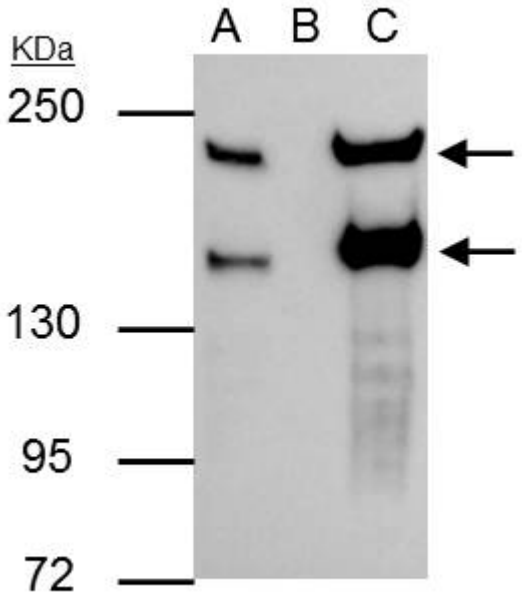
Concentration	1.36 mg/ml (Please refer to the vial label for the specific concentration)
Storage Buffer	1XPBS, 20% Glycerol (pH7). 0.025% ProClin 300 was added as a preservative.
Storage Instruction	Keep as concentrated solution. Aliquot and store at -20ツ゠C or below. Avoid multiple freeze-thaw cycles.
Notes	For *In vitro* laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.
ResearchArea	Disease Related > Cardiovascular > Heart > Heart disease Neuroscience > Neural Development > Axonal guidance Stem Cell Development > Development > Ectoderm > Nervous system development

Application Reference

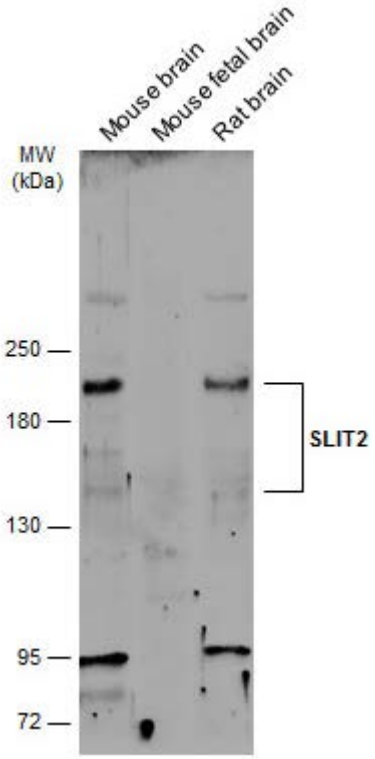
1. Lin SH (2014) *J Agric Food Chem* 10493-503 2. Delloye-Bourgeois C (2014) *Nat Neurosci*



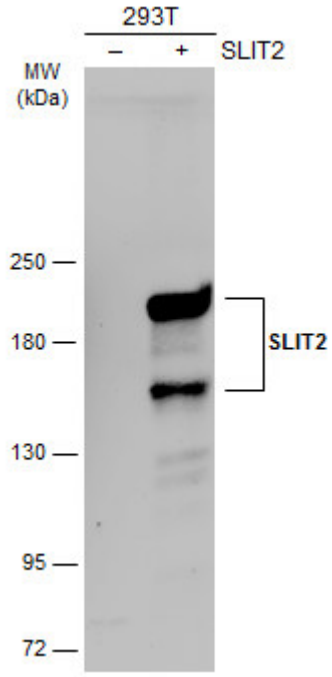
- GTX118220 WB Image
- SLIT2 antibody detects SLIT2 protein by western blot analysis. Various whole cell extracts (30 ツオg) were separated by 5% SDS-PAGE, and the membrane was blotted with SLIT2 antibody (GTX118220) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



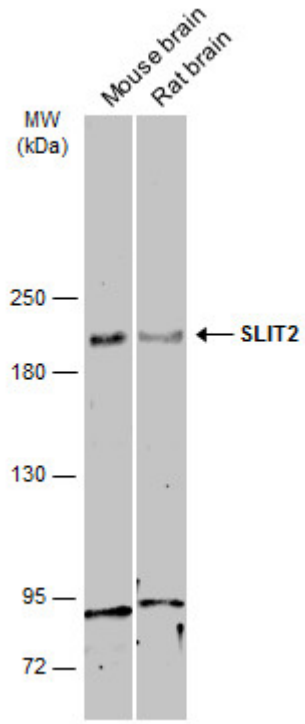
- GTX118220 IP Image
- SLIT2 antibody immunoprecipitates SLIT2 protein in IP experiments. IP Sample: Raji whole cell lysate/extract A : 30 ug whole cell lysate/extract of SLIT2 protein expressing Raji cells B : Control with 3 ug of pre-immune rabbit IgG C : Immunoprecipitation of SLIT2 by 3 ug of SLIT2 antibody (GTX118220) 5% SDS-PAGE The immunoprecipitated SLIT2 protein was detected by SLIT2 antibody (GTX118220) diluted at 1 : 1000. EasyBlot anti-rabbit IgG (HRP) (GTX221666-01) was used as a secondary reagent.



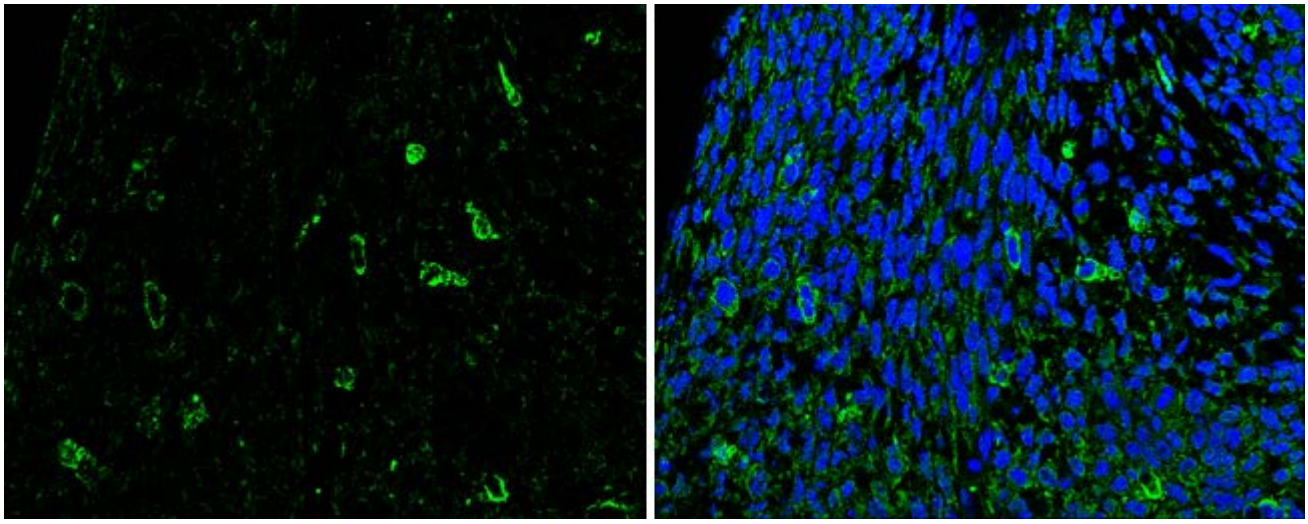
- GTX118220 WB Image
- Various tissue extracts (30 ㎍g) were separated by 5% SDS-PAGE, and the membrane was blotted with SLIT2 antibody (GTX118220) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



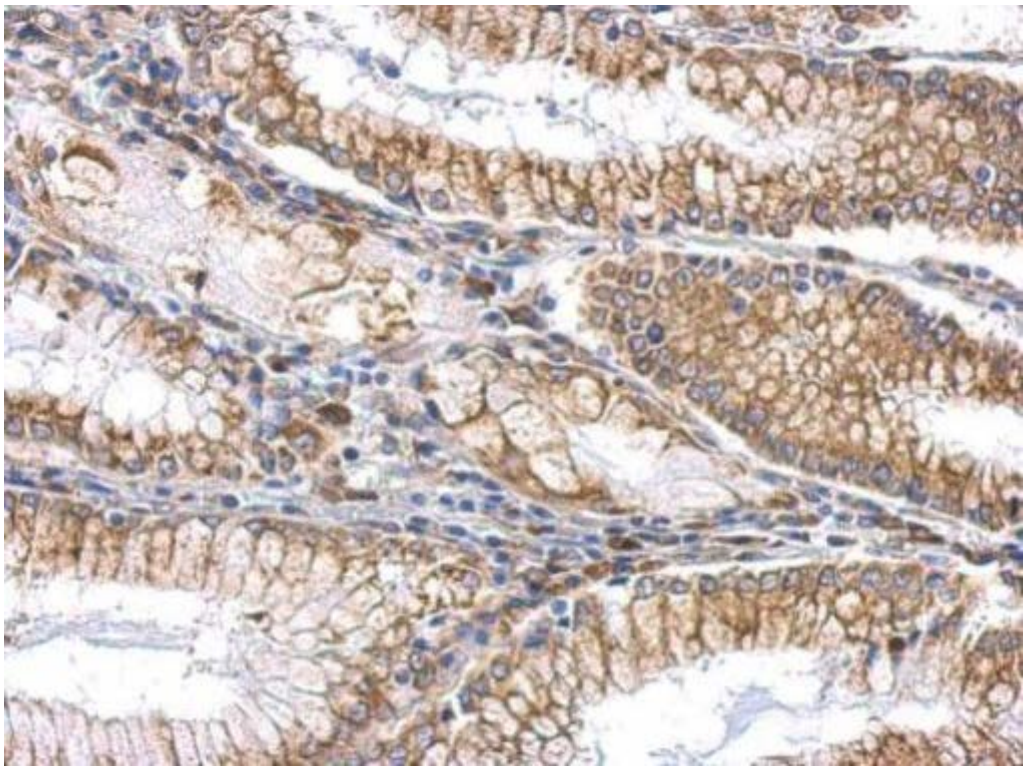
- GTX118220 WB Image
- Non-transfected (蘍 and transfected (+) 293T whole cell extracts (30 ㎍) were separated by 5% SDS-PAGE, and the membrane was blotted with SLIT2 antibody (GTX118220) diluted at 1:4000. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



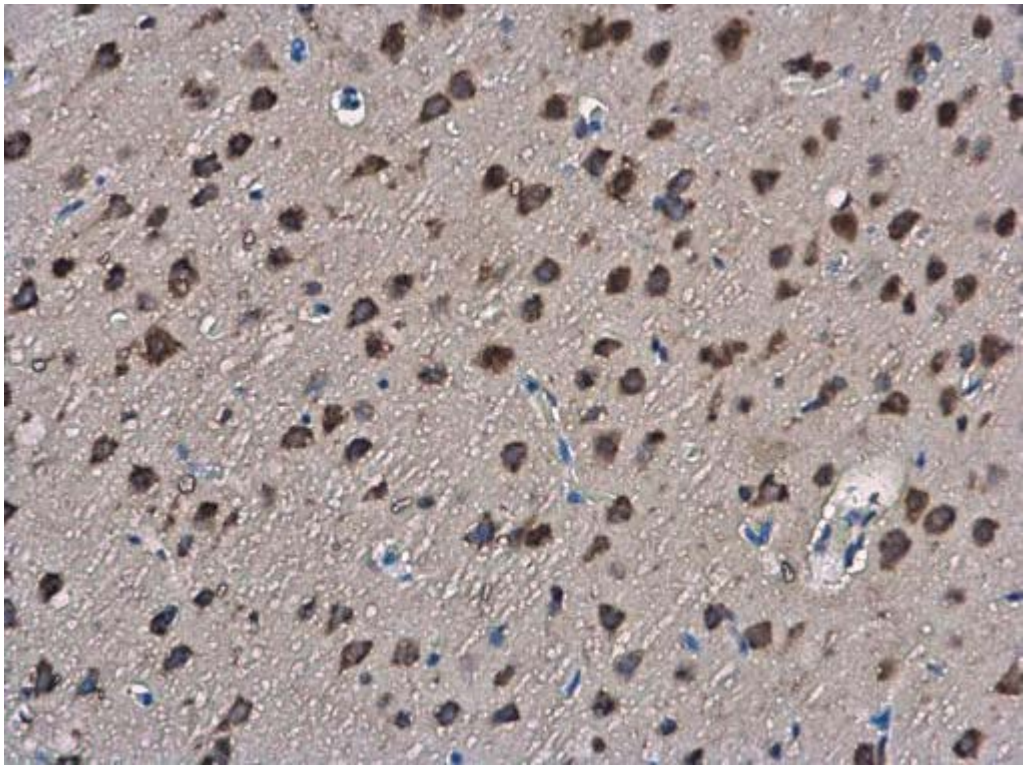
- GTX118220 WB Image
- Various tissue extracts (50 ㎍) were separated by 5% SDS-PAGE, and the membrane was blotted with SLIT2 antibody (GTX118220) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (GTX213110-01) was used to detect the primary antibody.



- GTX118220 IHC-P Image
- SLIT2 antibody detects SLIT2 protein at cytoplasm in mouse fetal brain by immunohistochemical analysis.
  Sample: Paraffin-embedded mouse fetal brain.
  Green: SLIT2 antibody (GTX118220) diluted at 1:200. The signal was developed using goat anti-rabbit IgG antibody (Dylight488) (GTX213110-04).
  Blue: Nuclear staining with Hoechst 33342.



- GTX118220 IHC-P Image
- SLIT2 antibody detects SLIT2 protein at cytosol and membrane on gastric carcinoma by immunohistochemical analysis.
  Sample: Paraffin-embedded human gastric carcinoma.
  SLIT2 antibody (GTX118220) dilution: 1:500.



- GTX118220 IHC-P Image
- SLIT2 antibody detects SLIT2 protein at cytoplasm in rat brain by immunohistochemical analysis.
  Sample: Paraffin-embedded rat brain.
  SLIT2 antibody (GTX118220) diluted at 1:400.