



Rabbit Anti-KIAA1598 antibody

SL11863R

Product Name:	KIAA1598
Chinese Name:	阅读障碍相关蛋白Shootin抗体
Alias:	DKFZp686A0439; hypothetical protein FLJ11122; Kiaa1598; MGC40476; Putative uncharacterized protein KIAA1598; Shootin 1; Shootin-1; Shootin; SHOT1_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	72kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human KIAA1598:21-130/631
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Shootin1 is a 631 amino acid protein that belongs to the shootin family. The shootin1 protein contains three coiled-coil domains, a proline-rich region and interacts with RUFY3. Shootin1 is involved in the generation of internal asymmetric signals required for neuronal polarization. The shootin1 protein acts upstream of PI3K (phosphoinositide 3-kinase), by being required for spatially localized PI3K activity. By accumulating asymmetrically in a single neurite before polarization, shootin1 leads to axon induction

for polarization, additionally the absence of shootin1 from the nascent axon's siblings by competition prevents the formation of surplus axons. Existing as seven alternatively spliced isoforms, the shootin1 gene is conserved in chimpanzee, dog, mouse, rat, chicken and zebrafish, and maps to human chromosome 10q25.3.

Function:

Involved in the generation of internal asymmetric signals required for neuronal polarization. Acts upstream of PI3K (phosphoinositide 3-kinase), by being required for spatially localized PI3K activity. Accumulates asymmetrically in a single neurite before polarization, leading to axon induction for polarization, its absence from the nascent axon's siblings by competition preventing the formation of surplus axons.

Subunit:

Interacts with RUFY3

Subcellular Location:

Cell projection.

Similarity:

Belongs to the shootin family.

SWISS:

A0MZ66

Gene ID:

57698

Database links:

[Entrez Gene: 57698](#) Human

[Entrez Gene: 292139](#) Rat

[Omid: 611171](#) Human

[SwissProt: A0MZ66](#) Human

[SwissProt: A0MZ67](#) Rat

[Unigene: 501140](#) Human

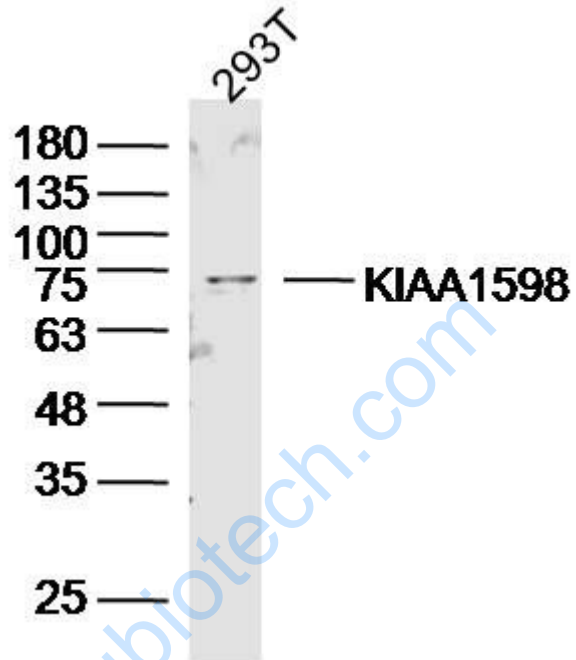
[Unigene: 16095](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

Picture:



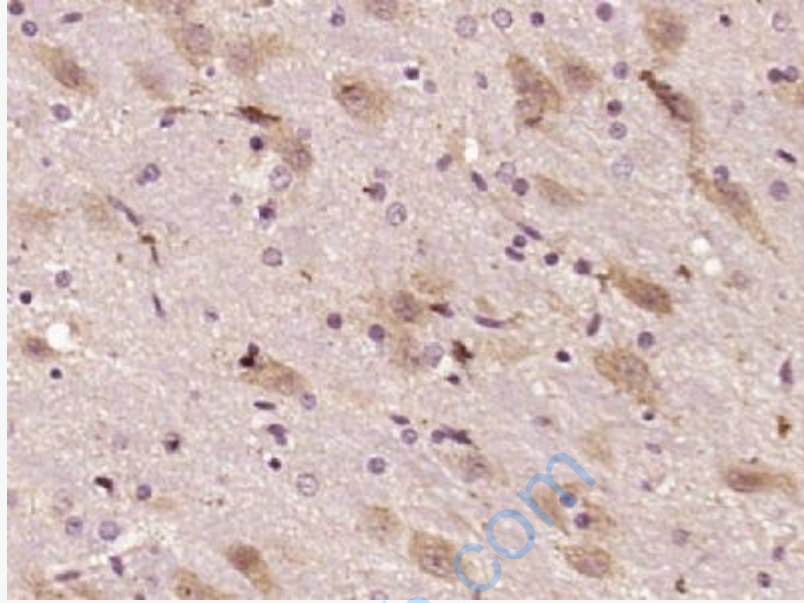
Sample: 293T Cell (Human) Lysate at 40 ug

Primary: Anti-KIAA1598(SL11863R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 72kD

Observed band size: 72kD



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (KIAA1598) Polyclonal Antibody, Unconjugated (SL11863R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.