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Datasheet for ABIN1411660

## anti-Shootin-1 (SHTN1) (AA 21-130) antibody (Cy5)

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Quantity:	100 μL
Target:	Shootin-1 (SHTN1)
Binding Specificity:	AA 21-130
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	Cy5
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

### **Product Details**

Immunogen:	KLH conjugated synthetic peptide derived from human Shootin/KIAA1598	
Isotype:	IgG	
Cross-Reactivity:	Human, Rat	
Predicted Reactivity:	Mouse,Cow,Pig,Horse	
Purification:	Purified by Protein A.	

## **Target Details**

Target:	Shootin-1 (SHTN1)
Alternative Name:	Shootin/KIAA1598 (SHTN1 Products)

#### **Target Details**

Background:

Synonyms: DKFZp686A0439, hypothetical protein FLJ11122, Kiaa1598, MGC40476, Putative uncharacterized protein KIAA1598, Shootin 1, Shootin-1, SHOT1\_HUMAN.

Background: 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.

## **Application Details**

Application Notes:

IF(IHC-P) 1:50-200

IF(IHC-F) 1:50-200

IF(ICC) 1:50-200

Restrictions:

For Research Use only

## Handling

Format:	Liquid	
Concentration:	1 μg/μL	
Buffer:	Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.	
Preservative:	ProClin	
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.	
Storage:	-20 °C	
Storage Comment:	Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.	
Expiry Date:	12 months	