



## Rabbit Anti-CYFIP1 antibody

SL14139R

<b>Product Name:</b>	CYFIP1
<b>Chinese Name:</b>	细胞质FMR1相关蛋白抗体
<b>Alias:</b>	CY; CYFIP 1; CYFIP1; CYFP1_HUMAN; Cytoplasmic FMR1 interacting protein 1; Cytoplasmic FMR1-interacting protein 1; FLJ45151; KIAA0068; p140sra 1; p140sra-1; P140SRA1; Selective hybridizing clone; SHYC; Specifically Rac1 associated protein 1; Specifically Rac1-associated protein 1; SRA 1; Sra-1; SRA1.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Pig,Cow,Rabbit,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=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.
<b>Molecular weight:</b>	145kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human CYFIP1:251-350/1253
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	CYFIP1 are cytoplasmic proteins belonging to the CYFIP family. Both proteins bind GTP-bound Rac 1 to release FRM1 in its active state, which is thought to regulate mRNA translation of neural cytoskeletal proteins. A loss of CYFIP1 and CYFIP2 leads to mutant neurons with defective axonal growth and motor function. Also designated

specifically Rac1-associated protein 1 (sra-1) or p140sra-1, CYFIP1 contains 1,253 amino acids and is a component of the WAVE2 complex. CYFIP1 is encoded by a gene that maps to human chromosome 15q11.2 and exists as three alternatively spliced isoforms. CYFIP2, also known as p53-inducible protein 121, contains 1,278 amino acids and plays a role in p53-dependent apoptosis. Existing as two alternatively spliced isoforms, CYFIP2 is a component of the WAVE1 complex and is encoded by a gene located on human chromosome 5q33.3.

**Function:**

Component of the CYFIP1-EIF4E-FMR1 complex which binds to the mRNA cap and mediates translational repression. In the CYFIP1-EIF4E-FMR1 complex this subunit is an adapter between EIF4E and FMR1. Promotes the translation repression activity of FMR1 in brain probably by mediating its association with EIF4E and mRNA (By similarity). Involved in formation of membrane ruffles and lamellipodia protrusions and in axon outgrowth. Binds to F-actin but not to RNA. Regulator of epithelial morphogenesis. May act as an invasion suppressor in cancers.

**Subcellular Location:**

Cytoplasm > perinuclear region. Cell projection > lamellipodium. Cell projection > ruffle. Cell junction > synapse > synaptosome. Highly expressed in the perinuclear region. Enriched in synaptosomes, membrane ruffles and at the tips of lamellipodia.

**Similarity:**

Belongs to the CYFIP family.

**SWISS:**

Q7L576

**Gene ID:**

23191

**Database links:**

[Entrez Gene: 23191](#) Human

[Entrez Gene: 20430](#) Mouse

[Entrez Gene: 308666](#) Rat

[Entrez Gene: 336613](#) Zebrafish

[Omim: 606322](#) Human

[SwissProt: Q7L576](#) Human

[SwissProt: Q7TMB8](#) Mouse

[SwissProt: Q90YM8](#) Zebrafish

[Unigene: 26704](#) Human

[Unigene: 333893](#) Mouse

[Unigene: 37249](#) Mouse

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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