

KD-Validated Anti-CYFIP1 Rabbit Polyclonal Antibody

Rabbit polyclonal antibody

Catalog # AGI2149

Product Information

Application	WB
Primary Accession	Q7L576
Reactivity	Rat, Human, Mouse
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	145182
Gene Name	CYFIP1
Aliases	CYFIP1; Cytoplasmic FMR1 Interacting Protein 1; P140SRA-1; KIAA0068; SHYC; Cytoplasmic FMRP Interacting Protein 1; Cytoplasmic FMR1-Interacting Protein 1; Specifically Rac1-Associated Protein 1; Selective Hybridizing Clone; P140sra-1; SRA-1; Sra-1; SRA1
Immunogen	A synthesized peptide derived from human CYFIP1

Additional Information

Gene ID	23191
Other Names	Cytoplasmic FMR1-interacting protein 1, Specifically Rac1-associated protein 1, Sra-1, p140sra-1, CYFIP1 (HGNC:13759)

Protein Information

Name	CYFIP1 (HGNC:13759)
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). Regulates formation of membrane ruffles and lamellipodia. Plays a role in axon outgrowth. Binds to F-actin but not to RNA. Part of the WAVE complex that regulates actin filament reorganization via its interaction with the Arp2/3 complex. Actin remodeling activity is regulated by RAC1. Regulator of epithelial morphogenesis. As component of the WAVE1 complex, required for BDNF-NTRK2 endocytic trafficking and signaling from early endosomes (By similarity). May act as an invasion suppressor in cancers.
Cellular Location	Cytoplasm {ECO:0000250 UniProtKB:Q7TMB8}. Cytoplasm, perinuclear region {ECO:0000250 UniProtKB:Q7TMB8}. Cell projection, lamellipodium {ECO:0000250 UniProtKB:Q7TMB8}. Cell projection, ruffle {ECO:0000250 UniProtKB:Q7TMB8}. Synapse, synaptosome {ECO:0000250 UniProtKB:Q7TMB8}. Note=Highly expressed in the

perinuclear region (By similarity). Enriched in synaptosomes (By similarity). Also enriched in membrane ruffles and at the tips of lamellipodia (By similarity). {ECO:0000250|UniProtKB:Q7TMB8}

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