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KD-Validated Anti-Cytoplasmic FMR1 interacting protein 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1501

Specification

KD-Validated Anti-Cytoplasmic FMR1 interacting protein 1 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q7L576
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 145 kDa , observed, 130 kDa KDa**
Gene Name	**CYFIP1**
Aliases	**CYFIP1; Cytoplasmic FMR1 Interacting Protein 1; P140SRA-1; KIAA; 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**

KD-Validated Anti-Cytoplasmic FMR1 interacting protein 1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**23191**

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

KD-Validated Anti-Cytoplasmic FMR1 interacting protein 1 Rabbit Monoclonal Antibody - 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.

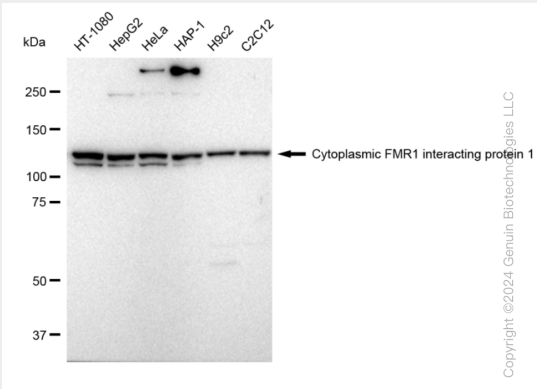
Cellular Location
Cytoplasm {ECO:0000250|UniProtKB:Q7TMB8}. Cytoplasm, perinuclear region {ECO:0000250|UniProtKB:Q7TMB8}. Cell projection, lamellipodium {ECO:0000250|UniProtKB:Q7TMB8}. Cell projection, ruffle {ECO:0000250|UniProtKB:Q7TMB8}. Synapse, synaptosome {ECO:0000250|UniProtKB:Q7TMB8}. Note=Highly 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}

KD-Validated Anti-Cytoplasmic FMR1 interacting protein 1 Rabbit Monoclonal Antibody - Protocols

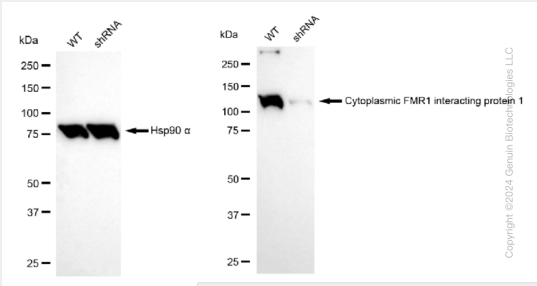
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Cytoplasmic FMR1 interacting protein 1 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Cytoplasmic FMR1 interacting protein 1 antibody (Cat#AGI1501). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Cytoplasmic FMR1 interacting protein 1 antibody (Cat#AGI1501, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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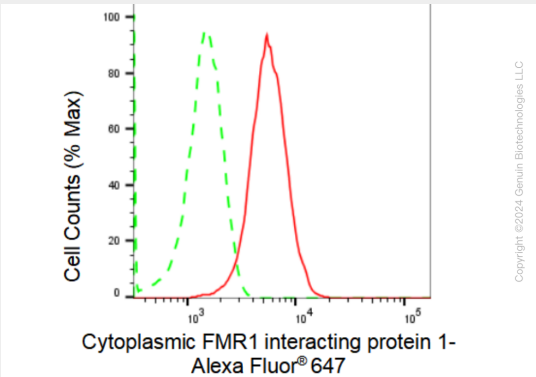
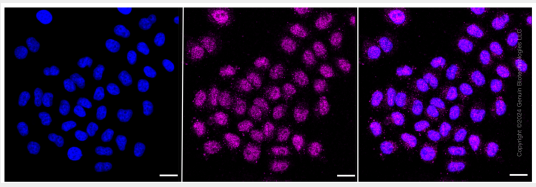
Western blotting analysis using anti-Cytoplasmic FMR1 interacting protein 1 antibody (Cat#AGI1501). Cytoplasmic FMR1 interacting protein 1 expression in wild type (WT) and cytoplasmic FMR1 interacting protein 1 shRNA knockdown (KD) Hela cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-Cytoplasmic FMR1 interacting protein 1 antibody (Cat#AGI1501, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Cytoplasmic FMR1 interacting protein 1 expression in HepG2 cells using Cytoplasmic FMR1 interacting protein 1 antibody (Cat#AGI1501, 1:2,000). Green, isotype control; red, Cytoplasmic FMR1 interacting protein 1.



Immunocytochemical staining of HepG2 cells with Cytoplasmic FMR1 interacting protein 1 antibody (Cat#AGI1501, 1:1,000). Nuclei were stained blue with DAPI; Cytoplasmic FMR1 interacting protein 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.