

Product Name: KD-Validated Cytoplasmic Fmr1 Interacting Protein 1 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01117

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 145.2kDa

Antigen Information

Gene Name	CYFIP1 CYFIP1; Cytoplasmic FMR1 Interacting Protein 1; P140SRA-1; KIAA; Cytoplasmic FMRP
Alternative Names	Interacting Protein 1; Cytoplasmic FMR1-Interacting Protein 1; Specifically Rac1-Associated Protein 1; Selective Hybridizing Clone; P140sra-1; SRA-1; Sra-1; SRA1
Gene ID	23191.0
SwissProt ID	Q7L576
Immunogen	A synthesized peptide derived from human CYFIP1

Background

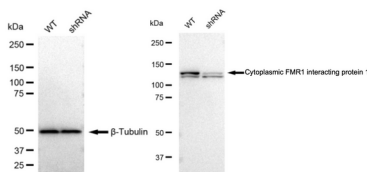
This gene encodes a protein that regulates cytoskeletal dynamics and protein translation. The encoded protein is a component

of the WAVE regulatory complex (WRC), which promotes actin polymerization. This protein also interacts with the synaptic functional regulator FMR1 protein and translation initiation factor 4E to inhibit protein translation. A large chromosomal deletion including this gene is associated with increased risk of schizophrenia and epilepsy in human patients. Reduced expression of this gene has been observed in various human cancers and the encoded protein may inhibit tumor invasion. [provided by RefSeq, Mar 2022]

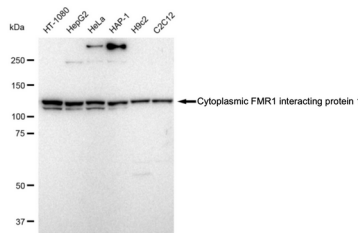
Research Area

Cancer

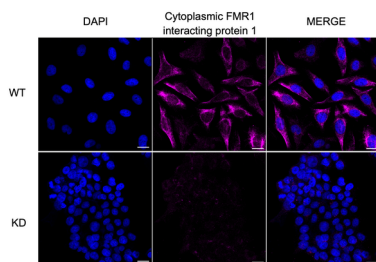
Image Data



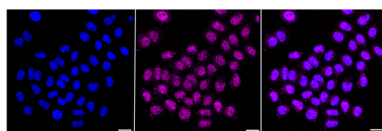
Western blotting analysis using cytoplasmic FMR1 interacting protein 1 antibody (KVA01117). Cytoplasmic FMR1 interacting protein 1 expression in wild type (WT) and cytoplasmic FMR1 interacting protein 1 (CYFIP1) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with cytoplasmic FMR1 interacting protein 1 antibody (KVA01117, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



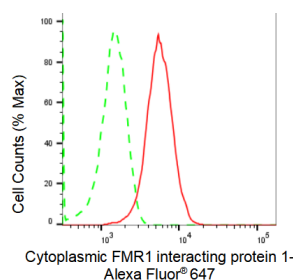
Western blotting analysis using cytoplasmic FMR1 interacting protein 1 antibody (KVA01117). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with cytoplasmic FMR1 interacting protein 1 antibody (KVA01117, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using cytoplasmic FMR1 interacting protein 1 antibody (KVA01117, 1:1,000). Top panel: wild-type (WT); Bottom panel: cytoplasmic FMR1 interacting protein 1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Cytoplasmic FMR1 interacting protein 1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with Cytoplasmic FMR1 interacting protein 1 antibody (KVA01117, 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.



Flow cytometric analysis of Cytoplasmic FMR1 interacting protein 1 expression in HepG2 cells using Cytoplasmic FMR1 interacting protein 1 antibody (KVA01117, 1:2,000). Green, isotype control; red, Cytoplasmic FMR1 interacting protein 1.

