

CYFIP1 polyclonal antibody

Catalog: BS60773

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Fragile X syndrome is the most frequent form of inherited mental retardation and is a result of transcriptional silencing of the FMR1 gene on the X chromosome. The FMR1 protein (also designated FMRP) is an RNA-binding protein that associates with polyribosomes and is a likely component of a messenger ribonuclear protein (mRNP) particle. FMR1 can also interact with two fragile X syndrome related factors, FXR1 (also designated FXR1P) and FXR2 (also designated FXR2P). These proteins form heterodimers through their N-terminal coiled-coiled domains. CYFIP1 and CYFIP2 (also known as cytoplasmic FMRP interacting proteins 1 and 2, respectively, and as Sra-1 in mouse) both interact with FMR1 but CYFIP2 also reacts with FXR1 and FXR2. CYFIP1 and CYFIP2 bind GTP-bound Rac1 to release FMRP 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.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.2.

Molecular Weight:

~ 145 kDa

Swiss-Prot:

Q7L576

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

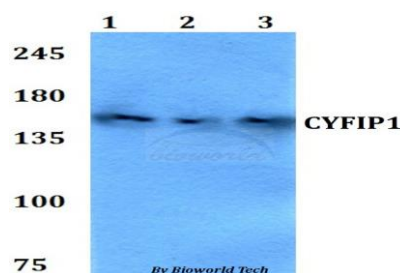
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

CYFIP1 polyclonal antibody detects endogenous levels of CYFIP1 protein.

DATA:



Western blot (WB) analysis of CYFIP1 polyclonal antibody at 1:500 dilution

Lane1:HEK293T whole cell lysate

Lane2:Raw264.7 whole cell lysate

Lane3:PC12 whole cell lysate

Note:

For research use only, not for use in diagnostic procedure.

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