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SH3RF2 Antibody

Catalog # ASC11186

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	Q8TEC5
Other Accession	NP_689763, 222446607
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	79320
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	SH3RF2 antibody can be used for detection of SH3RF2 by Western blot at 1 - 2 g/mL. Antibody can also be used for immunohistochemistry starting at 10 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

Gene ID	153769
Other Names	Putative E3 ubiquitin-protein ligase SH3RF2, 6.3.2.-, Heart protein phosphatase 1-binding protein, HEPP1, Protein phosphatase 1 regulatory subunit 39, RING finger protein 158, SH3 domain-containing RING finger protein 2, SH3RF2, PPP1R39, RNF158
Target/Specificity	SH3RF2;
Reconstitution & Storage	SH3RF2 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Precautions	SH3RF2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SH3RF2
Function	Has E3 ubiquitin-protein ligase activity (PubMed: 24130170). Acts as an anti-apoptotic regulator of the JNK pathway by ubiquitinating and promoting the degradation of SH3RF1, a scaffold protein that is required for pro-apoptotic JNK activation (PubMed:22128169). Facilitates TNF-alpha-mediated recruitment of adapter proteins TRADD and RIPK1 to TNFRSF1A and regulates PAK4 protein stability via inhibition of its ubiquitin-mediated proteasomal degradation (PubMed:24130170). Inhibits

PPP1CA phosphatase activity (PubMed:19389623, PubMed:19945436).

Cellular Location Nucleus.

Tissue Location Heart (at protein level). Up-regulated in colon cancer tissues as compared to normal colon tissues (at protein level) Testis. In the heart, present in the apex, left atrium, right atrium, left ventricle and right ventricle, but not in the aorta

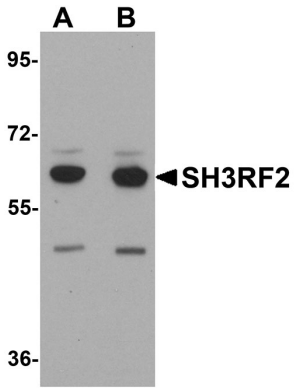
Background

SH3RF2 Antibody: Although the SH3 domain containing ring finger 2 protein (SH3RF2) has been identified as a marker of the nucleus accumbens in the human brain, little is known about this protein. Recent yeast two-hybrid experiments have shown that SH3RF2 associates with protein phosphatase 1 (PP1) and is expressed primarily in heart and testis tissue. Recombinant SH3RF2 enhanced PP1 enzymatic activity and antagonized the ability of phopho-inhibitor-1 or -2 to inhibit PP1, suggesting that SH3RF2 may play a role working with PP1 in cardiac functions.

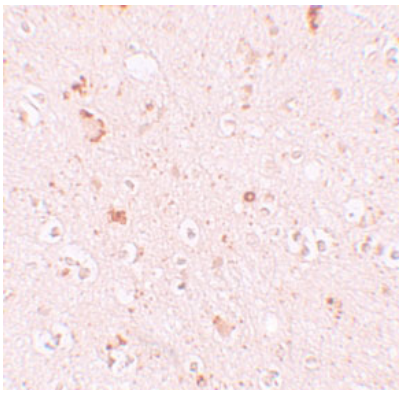
References

Ernst C, Sequeira A, Klempan, et al. Confirmation of region-specific patterns of gene expression in the human brain. Neurogenetics2007; 8:219-24.
Chen CY, Lai NS, Yang JJ, et al. FLJ23654 encodes a heart protein phosphatase 1-binding protein (Hepp1). Biochem. Biophys. Res. Commun.2010; 391:698-702.

Images

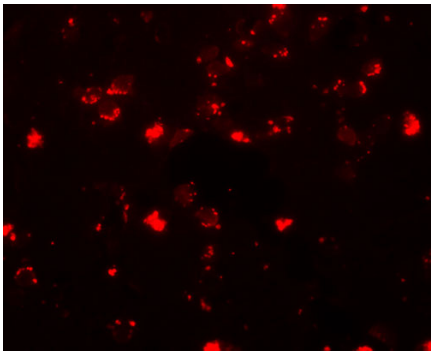


Western blot analysis of SH3RF2 in 3T3 cell lysate with SH3RF2 antibody at (A) 1 and (B) 2 µg/mL.



Immunohistochemistry of SH3RF2 in human brain tissue with SH3RF2 antibody at 10 µg/mL.

Immunofluorescence of SH3RF2 in human brain tissue with SH3RF2 antibody at 20 µg/mL.



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