

# SHQ1 Antibody

Catalog # ASC11545

## Product Information

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<b>Application</b>	WB, IF, E
<b>Primary Accession</b>	<a href="#">Q6PI26</a>
<b>Other Accession</b>	<a href="#">NP_060600</a> , <a href="#">56550033</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Calculated MW</b>	65125
<b>Concentration (mg/ml)</b>	1 mg/mL
<b>Conjugate</b>	Unconjugated
<b>Application Notes</b>	SHQ1 antibody can be used for detection of SHQ1 by Western blot at 1 $\mu$ g/mL. For immunofluorescence start at 20 $\mu$ g/mL.

## Additional Information

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<b>Gene ID</b>	55164
<b>Other Names</b>	Protein SHQ1 homolog, SHQ1
<b>Target/Specificity</b>	SHQ1; Multiple isoforms are known to exist.
<b>Reconstitution &amp; Storage</b>	SHQ1 antibody can be stored at 4°C for three months and -20°C, 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.
<b>Precautions</b>	SHQ1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	SHQ1
<b>Function</b>	Required for the quantitative accumulation of H/ACA ribonucleoproteins (RNPs), including telomerase, probably through the stabilization of DKC1, from the time of its synthesis until its association with NOP10, NHP2, and NAF1 at the nascent H/ACA RNA.
<b>Cellular Location</b>	Cytoplasm, cytosol. Nucleus, nucleoplasm. Note=May at least partially shuttle between cytosol and nucleoplasm. In the nucleoplasm, exhibits a granular pattern, but is excluded from nucleoli and Cajal bodies. Absent from most H/ACA-box RNA transcription sites

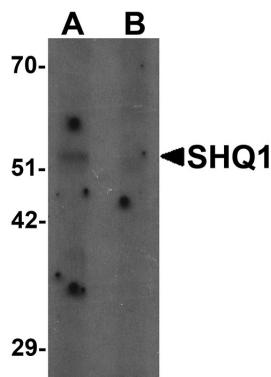
## Background

**SHQ1 Antibody:** SHQ1 is the human homolog of yeast Shq1p, a protein that acts as an accessory factor in the assembly of H/ACA ribonucleoproteins. SHQ1 has been shown to bind the major H/ACA core protein and the pseudouridine synthase NAP57, but precedes the assembly role of NAF1 and of the other H/ACA core proteins. SHQ1 assists in the assembly of H/ACA-box ribonucleoproteins that function in the processing of ribosomal RNAs, modification of spliceosomal small nuclear RNAs, and stabilization of telomerase.

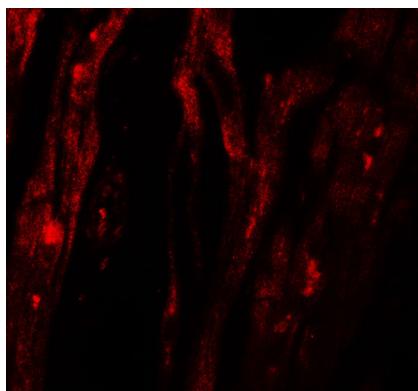
## References

Ito T, Chiba T, Ozawa R, et al. A comprehensive two-hybrid analysis to explore the yeast protein interactome. Proc. Natl. Acad. Sci. USA 2001; 98:4569-74.  
Grozdanov PN, Roy S, Kittur N, et al. SHQ1 is required prior to NAF1 for assembly of H/ACA small nucleolar and telomerase RNPs. RNA 2009; 15:1188-97.

## Images



Western blot analysis of SHQ1 in human heart tissue lysate with SHQ1 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide.



Immunofluorescence of SHQ1 in human heart tissue with SHQ1 antibody at 20 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.