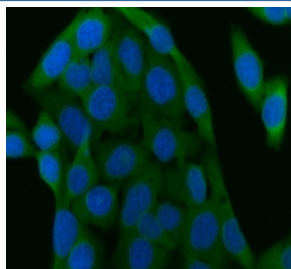


## SIP Antibody / SIAH Interacting Protein / CACYBP (R30852)

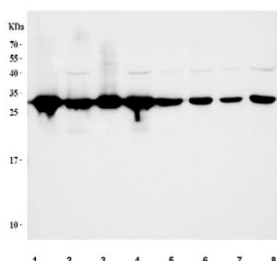
Catalog No.	Formulation	Size
R30852	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

**Bulk quote request**

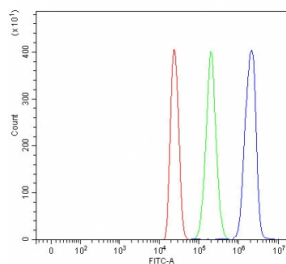
<b>Availability</b>	1-3 business days
<b>Species Reactivity</b>	Human, Mouse, Rat
<b>Format</b>	Antigen affinity purified
<b>Clonality</b>	Polyclonal (rabbit origin)
<b>Isotype</b>	Rabbit IgG
<b>Purity</b>	Antigen affinity
<b>Buffer</b>	Lyophilized from 1X PBS with 2.5% BSA, 0.025% thimerosal and 0.025% sodium azide
<b>UniProt</b>	Q9HB71
<b>Localization</b>	Nuclear and cytoplasmic
<b>Applications</b>	Western Blot : 0.5-1ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells
<b>Limitations</b>	This SIP antibody is available for research use only.



Immunofluorescent staining of FFPE human HeLa cells with SIP antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human MCF7, 2) human RT4, 3) human SW620, 4) human U-251, 5) rat liver, 6) rat brain, 7) mouse liver and 8) mouse brain tissue lysate with SIP antibody. Predicted molecular weight ~27 kDa.



Flow cytometry testing of fixed and permeabilized human HL60 cells with SIP antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue=SIP antibody.

## Description

CACYBP (Calcyclin-binding protein), also called SIP (SIAH Interacting Protein), is a protein that in humans is encoded by the CACYBP gene. The full-length SIP cDNA encodes a predicted 228-amino acid protein. Sequence analysis of the shortest cDNA derived by 2-hybrid screening revealed an 8-amino acid difference in the deduced open reading frame followed by a stop codon, resulting in a predicted 80-amino acid protein, SIP-short (SIPS). The CACYBP gene is mapped on 1q25.1. It may be involved in calcium-dependent ubiquitination and subsequent proteosomal degradation of target proteins. It probably serves as a molecular bridge in ubiquitin E3 complexes and participates in the ubiquitin-mediated degradation of beta-catenin. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene. The C-terminal region of SIP that is homologous to SGT1 was able to complement defects in yeast strains containing SGT1 mutant alleles, demonstrating conservation of SGT1 and SIP protein function.

## Application Notes

The stated application concentrations are suggested starting amounts. Titration of the SIP antibody may be required due to differences in protocols and secondary/substrate sensitivity.

## Immunogen

An amino acid sequence from the middle region of human SIAH Interacting Protein (NTRWDYLTQVEKECKE) was used as the immunogen for this SIP antibody (100% homologous in human, mouse and rat).

## Storage

After reconstitution, the SIP antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.