

## Rabbit anti-Human CARHSP1 Polyclonal Antibody | anti-CARHSP1 antibody

Anti-CARHSP1 Antibody, Rabbit Polyclonal

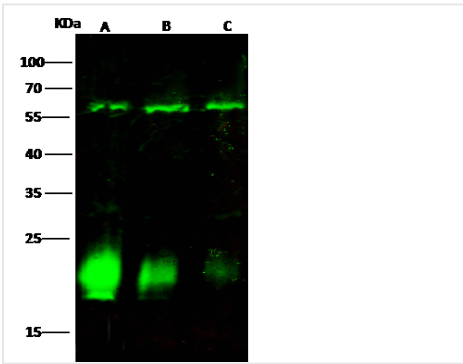
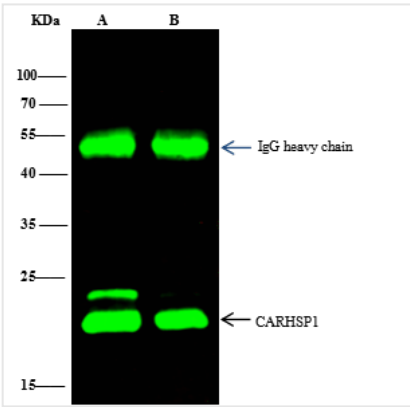
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                             |
|-----------|--------|------------|------------------------------------------|
| AAA255758 | Rabbit | Human      | Immunoprecipitation, ELISA, Western Blot |

### PRODUCT SYNONYMS

CARHSP1; Polyclonal Antibody; Anti-CARHSP1 Antibody; Rabbit Polyclonal; CARHSP1 Antibody; Rabbit PAb; Antigen Affinity Purified; calcium regulated heat stable protein 1; 24kDa; Anti-CRHSP-24 Antibody; Anti-CSDC1 Antibody; anti-CARHSP1 antibody

### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                                                                                                                                       |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                              | Rabbit                                                                                                                                                                                                                                                                |
| Reactivity                                        | Human                                                                                                                                                                                                                                                                 |
| Clonality                                         | Polyclonal                                                                                                                                                                                                                                                            |
| Isotype                                           | Rabbit IgG                                                                                                                                                                                                                                                            |
| Specificity                                       | Human CARHSP1                                                                                                                                                                                                                                                         |
| Purity/Purification                               | Protein A & Antigen Affinity                                                                                                                                                                                                                                          |
| Form/Format                                       | Liquid; 0.2um filtered solution in PBS                                                                                                                                                                                                                                |
| Applicable Applications for anti-CARHSP1 antibody | IP (Immunoprecipitation), ELISA, WB (Western Blot)                                                                                                                                                                                                                    |
| Immunogen                                         | Recombinant Human CARHSP1 protein                                                                                                                                                                                                                                     |
| Conjugation                                       | Unconjugated                                                                                                                                                                                                                                                          |
| Preparation                                       | Produced in rabbits immunized with purified, recombinant Human CARHSP1 (rh CARHSP1). CARHSP1 specific IgG was purified by Human CARHSP1 affinity chromatography.                                                                                                      |
| Preparation and Storage                           | This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles. |



**WB (Western Blot)**  
Anti-CARHSP1 rabbit polyclonal antibody at 1:500 dilution  
Lane A: HepG2 293T Hela Whole Cell Lysate  
Lanes B and C: Lysates/proteins at 30 ug per lane. Secondary Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 16 kDa. Observed band size: 22 kDa. (We are unsure as to the identity of these extra bands.)

**IP (Immunoprecipitation)**  
CARHSP1 was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate; Lane B: 0.5 mg 293T Whole Cell Lysate. 2 uL anti-CARHSP1 rabbit polyclonal antibody and 15 uL of 50 % Protein G agarose. Primary antibody: Anti-CARHSP1 rabbit polyclonal antibody, at 1:200 dilution. Secondary antibody: Dylight 800-labeled antibody to rabbit IgG (H+L), at 1:5000 dilution. Developed using the Odyssey technique. Performed under reducing conditions. Predicted band size: 22 kDa. Observed band size: 22 kDa.

ADDITIONAL INFORMATION

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CARHSP1 antibody | CARHSP1 is a biomarker for diabetic complications. Adenovirus-mediated CARHSP1 overexpression and siRNA-mediated knockdown experiments were performed to characterize the role of CARHSP1 in the regulation of gluconeogenic gene expression. CARHSP1 is regulated by nutrient status in the liver and functions at the transcriptional level to negatively regulate gluconeogenic genes, including the glucose-6-phosphatase catalytic subunit (G6Pc) and phosphoenolpyruvate carboxykinase 1 (PEPCK1). In addition, it is found that CARHSP1 can physically interact with peroxisome proliferator-activated receptor-alpha (PPARalpha) and inhibit its transcriptional activity. Both pharmacological and genetic ablations of PPARalpha attenuate the inhibitory effect of CARHSP1 on gluconeogenic gene expression in hepatocytes. |
| References                                            | Wistow G. et al., 2002, Mol Vis. 8: 205-20. Wishart MJ. et al., 2002, Proc Natl Acad Sci. 99 (4): 2112-7. Groblewski GE. et al., 1998, J Biol Chem. 273 (35): 22738-44. Fan Y. et al., 2011, J Biol Chem. 286 (47): 40584-94.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                  |
|----------------------------------|----------------------------------------------------------------------------------|
| NCBI GI #                        | 109715858                                                                        |
| NCBI GeneID                      | 23589                                                                            |
| NCBI Accession #                 | NP_055131                                                                        |
| NCBI GenBank Nucleotide #        | NM_014316.3                                                                      |
| UniProt Accession #              | Q9Y2V2; Q2YDX5; Q9BQ53; B2R4C3; D3DUF5                                           |
| Molecular Weight                 | 18.0 kDa (167aa), confirmed by MALDI-TOF                                         |
| NCBI Official Full Name          | calcium-regulated heat-stable protein 1                                          |
| NCBI Official Synonym Full Names | calcium regulated heat stable protein 1                                          |
| NCBI Official Symbol             | CARHSP1                                                                          |
| NCBI Official Synonym Symbols    | CSDC1; CRHSP24; CRHSP-24                                                         |
| NCBI Protein Information         | calcium-regulated heat-stable protein 1; calcium-regulated heat stable protein 1 |
| UniProt Protein Name             | Calcium-regulated heat-stable protein 1                                          |
| UniProt Gene Name                | CARHSP1                                                                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/carhsp1-antibody-immunoprecipitation-western-blot-elisa/255758>