

# Mouse Carbonic Anhydrase XII / Car12 HEK293 Cell Lysate (WB positive control)



**Sino Biological Inc.**  
Biological Solution Specialist

Catalog Number: 50014-M08HL

## CA12 Transfected / Overexpression Cell Lysate Product Information

|                              |                                                                                                                                                                                                                                                              |
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| <b>Expressed Host:</b>       | HEK293 Cells                                                                                                                                                                                                                                                 |
| <b>Products Description:</b> | Human Cell lysate that Mouse Ca12 / Car12 transfected / overexpressed for Western blot (WB) positive control. The whole cell lysate is provided in 1X Sample Buffer (1X modified RIPA buffer+1X SDS loading buffer).                                         |
| <b>Sequence information:</b> | A DNA sequence encoding the extracellular domain (Met 1-Ser 301) of mouse CA12 (NP_848483.2) precursor was expressed with a C-terminal polyhistidine tag.                                                                                                    |
| <b>Predicted N Terminal:</b> | Ala 25                                                                                                                                                                                                                                                       |
| <b>Molecule Mass:</b>        | The secreted recombinant mouse CA12 consists of 288 amino acids and has a calculated molecular mass of 32.8 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 40-45 kDa protein in SDS-PAGE under reducing conditions. |
| <b>Species:</b>              | Mouse                                                                                                                                                                                                                                                        |

## CA12 Transfected / Overexpression Cell Lysate Usage Guide

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Preparation Method:</b>      | Cell lysate was prepared by homogenization in ice-cold modified RIPA Lysis Buffer with cocktail of protease inhibitors (Sigma). Cell debris was removed by centrifugation. Protein concentration was determined by Bradford assay (Bio-Rad protein assay, Microplate Standard assay). The cell lysate was boiled for 5 min in 1 x SDS loading buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized. |
| <b>Lysis Buffer:</b>            | Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF.                                                                                                                                                                                                                                                                                                                                                           |
| <b>Quality Control Testing:</b> | 12.5% SDS-PAGE Stained with Coomassie Blue after protein purification.                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Stability:</b>               | Samples are stable for up to twelve months from date of receipt.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Recommend Usage:</b>         | <ol style="list-style-type: none"><li>1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube.</li><li>2. Re-dissolve the pellet using 200μL pure water and boil for 2-5 min.</li><li>3. Store the lyophilized cell lysate at 4°C. After re-dissolution, recommend to aliquot it into smaller quantities and store at -80°C.</li></ol>                                                                                                                          |
| <b>Storage Buffer:</b>          | 1 X Sample Buffer (1 X modified RIPA buffer+1 X SDS loading buffer).                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage Instruction:</b>     | Store at 4°C. After re-dissolution, aliquot and store at -80°C.                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Application notes:</b>       | Western blot (WB): Use at an assay dependent dilution.<br>Other Applications: Not tested.<br>Optimal dilutions/concentrations should be determined by the end user.                                                                                                                                                                                                                                                                                                                              |

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