

## Recombinant Full Length Human CHAC2 Protein, C-Flag-tagged

**Cat. No.** CHAC2-1084HFL    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human CHAC2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | The protein encoded by this gene is a gamma-glutamyl cyclotransferase that catalyzes the conversion of glutathione to 5-oxoproline and cysteinylglycine. It is thought that this gene is upregulated in response to endoplasmic reticulum stress and that the glutathione depletion enhances apoptosis. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                   |
| <b>Molecular Mass</b>   | 20.7 kDa                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MWVFGYGSLIWKVDFPYQDKLVGYITNYSRRFWQGSTDHRGVPGKPGRVVTLVED<br>PAGCVWGVAYRLPVG KEEEVKAYLDFREKGGYRTTTVIFYPKDPTTKPFSVLLYIGT<br>CDNPDYLGPALEDIAEQIFNAAGPSGR<br>NTEYLFELANSIRNLVPEEADHLEKLVKERLEGKQNLNCITRTRPLEQKLISEED<br>LAANDILDYKDDDDKV                                                                     |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                                                                                                                                                                            |

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|                      |                                                                                                                                               |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>     | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>       | Store at -80 centigrade.                                                                                                                      |
| <b>Concentration</b> | >50 ug/mL as determined by microplate BCA method.                                                                                             |
| <b>Preparation</b>   | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                              |
| <b>Full Length</b>   | Full L.                                                                                                                                       |

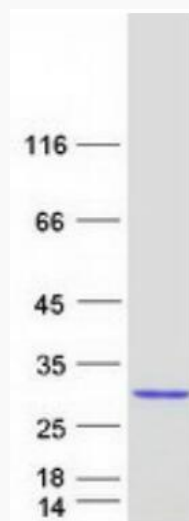
## GENE INFORMATION

|                        |                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CHAC2 ChaC glutathione specific gamma-glutamylcyclotransferase 2 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | CHAC2                                                                                     |
| <b>Synonyms</b>        | GCG1                                                                                      |
| <b>Gene ID</b>         | 494143                                                                                    |
| <b>mRNA Refseq</b>     | NM_001008708.4                                                                            |
| <b>Protein Refseq</b>  | NP_001008708.1                                                                            |
| <b>MIM</b>             | 617446                                                                                    |
| <b>UniProt ID</b>      | Q8WUX2                                                                                    |

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Coomassie blue staining of purified CHAC2 protein.

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