

## Recombinant Human CHAC1 Over-expression Lysate

Cat. No. CHAC1-181HCL Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human CHAC1 cell lysate, transcript variant 1, derived in Human HEK293T cell line.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	This gene encodes a member of the gamma-glutamylcyclotransferase family of proteins. The encoded protein has been shown to promote neuronal differentiation by deglycosylation of the Notch receptor, which prevents receptor maturation and inhibits Notch signaling. This protein may also play a role in the unfolded protein response, and in regulation of glutathione levels and oxidative balance in the cell. Elevated expression of this gene may indicate increased risk of cancer recurrence among breast and ovarian cancer patients.
<b>Form</b>	25mM Tris-HCl pH7.6, 150mM NaCl, 1% NP-40, 1mM EDTA, 1xProteinase inhibitor cocktail mix (Sigma), 1mM PMSF and 1mM Na3VO4
<b>Molecular Mass</b>	24.2 kDa
<b>Usage</b>	1 vial of 100 g gene specific transient over-expression cell lysate in RIPA buffer 1 vial of 100 g empty vector transfected control cell lysate in RIPA buffer 1 vial of 250ul 2xSDS Sample Buffer (4% SDS, 125mM Tris-HCl pH6.8, 10% Glycerol, 0.002% Bromphenol blue, 100mM DTT)
<b>Storage</b>	Upon receiving, store the sample at -20 centigrade. Lysate samples are stable for 12

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months from date of receipt when stored at -20 centigrade. Avoid repeated freeze-thaw cycles.

Lysate samples can be diluted with 2xSDS Sample Buffer provided. After dilution, the protein sample should be aliquoted and stored at -20 centigrade for long term storage. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

## GENE INFORMATION

<b>Gene Name</b>	CHAC1 ChaC, cation transport regulator homolog 1 (E. coli) [ Homo sapiens ]
<b>Official Symbol</b>	CHAC1
<b>Synonyms</b>	ChaC, cation transport regulator homolog 1; ChaC, cation transport regulator-like 1; blocks Notch protein; botch; gamma-GCG 1; gamma-GCT acting on glutathione homolog 1
<b>Gene ID</b>	79094
<b>mRNA Refseq</b>	NM_024111.3
<b>Protein Refseq</b>	NP_077016
<b>MIM</b>	614587
<b>UniProt ID</b>	Q9BUX1
<b>Chromosome Location</b>	15q15.1
<b>Function</b>	Notch binding;protein binding;

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