

Recombinant Human CHAC1 Over-expression Lysate

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

SPECIFICATION

Product Overview	Human CHAC1 cell lysate, transcript variant 1, derived in Human HEK293T cell line.
Species	Human
Source	HEK293
Description	This gene encodes a member of the gamma-glutamylcyclotransferase family of proteins. The encoded protein has been shown to promote neuronal differentiation by deglycination 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.
Form	25mM Tris-HCl pH7.6, 150mM NaCl, 1% NP-40, 1mM EDTA, 1xProteinase inhibitor cocktail mix (Sigma), 1mM PMSF and 1mM Na3VO4
Molecular Mass	24.2 kDa
Usage	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)
Storage	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

Gene Name	CHAC1 ChaC, cation transport regulator homolog 1 (E. coli) [Homo sapiens]
Official Symbol	CHAC1
Synonyms	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
Gene ID	79094
mRNA Refseq	NM_024111.3
Protein Refseq	NP_077016
MIM	614587
UniProt ID	Q9BUX1
Chromosome Location	15q15.1
Function	Notch binding;protein binding;

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