

# Recombinant Human NR3C2 overexpression cell lysate

**Cat. No.** NR3C2-17HCL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human NR3C2, transcript variant 1, was derived from Human HEK293T cell line.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | This gene encodes the mineralocorticoid receptor, which mediates aldosterone actions on salt and water balance within restricted target cells. The protein functions as a ligand-dependent transcription factor that binds to mineralocorticoid response elements in order to transactivate target genes. Mutations in this gene cause autosomal dominant pseudohypoaldosteronism type I, a disorder characterized by urinary salt wasting. Defects in this gene are also associated with early onset hypertension with severe exacerbation in pregnancy. Alternative splicing results in multiple transcript variants. |
| <b>Form</b>             | <p>1 vial of 100 g gene specific transient over-expression cell lysate in RIPA buffer(25mM Tris-HCl pH7.6, 150mM NaCl, 1% NP-40, 1mM EDTA, 1xProteinase inhibitor cocktail mix (Sigma), 1mM PMSF and 1mM Na3VO4).</p> <p>1 vial of 100 g empty vector transfected control cell lysate in RIPA buffer.</p> <p>1 vial of 250ul 2xSDS Sample Buffer (4% SDS, 125mM Tris-HCl pH6.8, 10% Glycerol, 0.002% Bromphenol blue, 100mM DTT).</p>                                                                                                                                                                                   |
| <b>Molecular Mass</b>   | 106.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <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>       | NR3C2 nuclear receptor subfamily 3, group C, member 2 [ Homo sapiens ]                                                                                                                                                 |
| <b>Official Symbol</b> | NR3C2                                                                                                                                                                                                                  |
| <b>Synonyms</b>        | NR3C2; nuclear receptor subfamily 3, group C, member 2; MLR; mineralocorticoid receptor; MR; aldosterone receptor; mineralocorticoid receptor 1; mineralocorticoid receptor delta; MCR; NR3C2VIT; FLJ41052; MGC133092; |
| <b>Gene ID</b>         | 4306                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>     | NM_000901                                                                                                                                                                                                              |
| <b>Protein Refseq</b>  | NP_000892                                                                                                                                                                                                              |
| <b>MIM</b>             | 600983                                                                                                                                                                                                                 |
| <b>UniProt ID</b>      | P08235                                                                                                                                                                                                                 |

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