

# Recombinant Human EGFR cell lysate

**Cat. No.** EGFR-2733HCL    **Lot. No.** (See product label)

## SPECIFICATION

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b>        | Recombinant Human EGFR (ErbB1) Protein, was expressed in Human Cells (whole cell lysate provided in 1X Sample Buffer; note: transfected cell lysate positive control).                                                                                                                                                                                                                                                                              |
| <b>Species</b>                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>                  | Human Cells                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Preparation method</b>      | Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample 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                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Recommended Usage</b>       | 1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube.2. Re-dissolve the pellet using 200µL pure water and boiled for 2-5 min.3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.Notes:The lysate is ready to load on SDS-PAGE for Western blot application. If dissociating conditions are required, add                 |

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|                            | reducing agent prior to heating.                                                                                                                                                      |
| <b>Stability</b>           | Samples are stable for up to twelve months from date of receipt at -80°C                                                                                                              |
| <b>Storage Buffer</b>      | 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>Storage Instruction</b> | Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Gene Name</b>       | EGFR epidermal growth factor receptor [ Homo sapiens ]                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Official Symbol</b> | EGFR                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>        | EGFR; epidermal growth factor receptor; epidermal growth factor receptor (avian erythroblastic leukemia viral (v erb b) oncogene homolog) , ERBB; ERBB1; erythroblastic leukemia viral (v erb b) oncogene homolog (avian); proto-oncogene c-ErbB-1; cell growth inhibiting protein 40; cell proliferation-inducing protein 61; receptor tyrosine-protein kinase erbB-1; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog; ERBB; HER1; mENA; PIG61; |
| <b>Gene ID</b>         | 1956                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>mRNA Refseq</b>     | NM_005228                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Refseq</b>  | NP_005219                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>MIM</b>             | 131550                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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| <b>UniProt ID</b>          | P00533                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Chromosome Location</b> | 7p12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Pathway</b>             | Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Arf6 signaling events, organism-specific biosystem; Axon guidance, organism-specific biosystem; Bladder cancer, organism-specific biosystem;                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Function</b>            | ATP binding; MAPK/ERK kinase kinase activity; actin filament binding; double-stranded DNA binding; enzyme binding; epidermal growth factor-activated receptor activity; epidermal growth factor-activated receptor activity; identical protein binding; contributes_to nitric-oxide synthase regulator activity; nucleotide binding; protein binding; protein heterodimerization activity; protein phosphatase binding; protein tyrosine kinase activity; protein tyrosine kinase activity; protein tyrosine kinase activity; receptor activity; receptor signaling protein tyrosine kinase activity; signal transducer activity; transmembrane receptor protein tyrosine kinase activity; transmembrane receptor protein tyrosine kinase activity; transmembrane signaling receptor activity; |