

Recombinant Rat EGFR cell lysate

Cat. No. EGFR-1462RCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat EGFR (HER1/ErbB1) Protein, was expressed in Human Cells (whole cell lysate provided in 1X Sample Buffer; note: transfected cell lysate positive control).
Species	Rat
Source	Human Cells
Preparation method	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.
Lysis buffer	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
Quality control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Recommended Usage	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

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	SDS-PAGE for Western blot application. If dissociating conditions are required, add reducing agent prior to heating.
Stability	Samples are stable for up to twelve months from date of receipt at -80°C
Storage 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
Storage Instruction	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	
Gene Name	Egfr epidermal growth factor receptor [Rattus norvegicus]
Official Symbol	EGFR
Synonyms	EGFR; epidermal growth factor receptor; EGFR-related peptide; avian erythroblastic leukemia viral (v-erbB) oncogene homolog; Epidermal growth factor receptor formerly avian erythroblastic leukemia viral (v-erbB) oncogene homolog (ErbB1); epidermal growth factor receptor, formerly avian erythroblastic leukemia viral (v-erbB) oncogene homolog (ErbB1); Errp; ERBB1; ErbB-1;
Gene ID	24329
mRNA Refseq	NM_031507
Protein Refseq	NP_113695
Pathway	Adherens junction, organism-specific biosystem; Adherens junction, conserved

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biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Axon guidance, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem;

Function

actin filament binding; enzyme binding; epidermal growth factor binding; epidermal growth factor-activated receptor activity; epidermal growth factor-activated receptor activity; epidermal growth factor-activated receptor activity; epidermal growth factor-activated receptor activity; glycoprotein binding; identical protein binding; integrin binding; kinase activity; contributes_to nitric-oxide synthase regulator activity; protein binding; protein heterodimerization activity; protein heterodimerization activity; protein kinase binding; protein phosphatase binding; protein tyrosine kinase activity; receptor binding; signal transducer activity; transmembrane signaling receptor activity;