

# Product Information

## **MemDX™ Antibody Discovery - Human EGFR (25-645) Membrane Protein, Partial, -His tag, low endotoxin**

Cat. No.: **MP0042F**

This product is for research use only and is not intended for diagnostic use.

This membrane protein is Human EGFR (25-645). It has been tested in SDS-PAGE, ELISA, SPR. We provide this protein to facilitate your membrane protein antibody discovery and development.

### Product Specifications

#### Host Species

Human

#### Target Protein

EGFR

#### Protein Length

ECD

#### Molecular Weight

The protein has a calculated MW of 70.5kDa. The protein migrates as 110-115 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

#### Sequence

AA Leu 25 - Ser 645 (Accession # P00533-1).

### Product Description

#### Activity

Yes

#### Application

SDS-PAGE, ELISA, SPR

#### Expression Systems

HEK293

#### Tag

His tag at the C-terminus

#### Protein Format

Soluble

#### Form

LYOPH

### Reconstitution

Please see Certificate of Analysis for specific instructions.

### Endotoxin

<0.01 EU/μg by the LAL method

### Purity

>95% as determined by SDS-PAGE.

### Buffer

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

### Storage

Stored at lyophilized form at -20°C or lower. Avoid repeated freeze-thaw cycles.

The antigen can be stable for 12 months in lyophilized form after storage at -20°C to -80°C, 3 months under sterile conditions after reconstitution after storage at -80°C.

## Target

### Target Protein

EGFR

### Full Name

epidermal growth factor receptor

### Introduction

The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor, thus inducing receptor dimerization and tyrosine autophosphorylation leading to cell proliferation. Mutations in this gene are associated with lung cancer. EGFR is a component of the cytokine storm which contributes to a severe form of Coronavirus Disease 2019 (COVID-19) resulting from infection with severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2).

### Alternative Names

ERBB; HER1; mENA; ERBB1; PIG61; NISBD2; epidermal growth factor receptor; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog; cell growth inhibiting protein 40; cell proliferation-inducing protein 61, epidermal growth factor receptor tyrosine kinase domain, erb-b2 receptor tyrosine kinase 1, proto-oncogene c-ErbB-1, receptor tyrosine-protein kinase erbB-1, EGFR, ERBB, ERBB1, HER1, PIG62, mENA

### Gene ID

[1956](#)

### UniProt ID

[P00533](#)