

# Product Information

## **MemDX™ Membrane Protein Human EGFR (Epidermal growth factor receptor, 25-645aa) for Antibody Discovery**

Cat. No.: **MP1499J**

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

This product is a 73.6 kDa Human EGFR membrane protein expressed in Mammalian cell. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Specifications

#### **Host Species**

Human

#### **Target Protein**

EGFR

#### **Protein Length**

Partial (25-645aa)

#### **Protein Class**

Immune Checkpoints

#### **Molecular Weight**

73.6 kDa

#### **TMD**

1

#### **Sequence**

LEEKKVCQGTSNKLTQLGTFEDHFLSLQRMFNNCEVVLGNLEITYVQRNYDLSFLKTIQEVAGYVLIALNTVERIPLNLQIIRGNMYY

### Product Description

#### **Activity**

Yes

#### **Expression Systems**

Mammalian cell

#### **Tag**

N-10xHis and C-Myc

#### **Form**

Lyophilized powder

### Reconstitution

Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration).

### Endotoxin

<1.0 EU/μg

### Purity

>90% as determined by SDS-PAGE

### Buffer

0.2 μm filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0

### Storage

Store at +4°C for up to one week or several months 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

Avian erythroblastic leukemia viral (v erb b) oncogene homolog; Cell growth inhibiting protein 40; Cell proliferation inducing protein 61; EGF R; EGFR; EGFR\_HUMAN; Epidermal growth factor receptor (avian erythroblastic leukemia viral (v erb b) oncogene homolog); Epidermal growth factor receptor (erythroblastic leukemia viral (v erb b) oncogene homolog avian); Epidermal growth factor receptor; erb-b2 receptor tyrosine kinase 1; ERBB; ERBB1; Errp; HER1; mENA; NISBD2; Oncogen ERBB; PIG61; Proto-oncogene c-ErbB-1; Receptor tyrosine protein kinase ErbB 1; Receptor tyrosine-protein kinase ErbB-1; SA7; Species antigen 7; Urogastrone; v-erb-b Avian erythroblastic leukemia viral oncogen homolog; wa2; Wa5

### Gene ID

[1956](#)

### UniProt ID

[P00533](#)