

# Product Information

## Recombinant Anti-Human EGFR Antibody

Cat. No.: **MOM-18040**

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

### Product Overview

Recombinant Human Antibody is directed against Human EGFR, expressed in Chinese Hamster Ovary cells(CHO)

### Antigen Description

Receptor for EGF, but also for other members of the EGF family, as TGF-alpha, amphiregulin, betacellulin, heparin-binding EGF-like growth factor, GP30 and vaccinia virus growth factor. Is involved in the control of cell growth and differentiation. Phosphorylates MUC1 in breast cancer cells and increases the interaction of MUC1 with SRC and CTNNB1/beta-catenin. Isoform 2 may act as an antagonist of EGF action.

### Specific Activity

Tested positive against native antigen.

### Target

EGFR

### Source

Human

### Species Reactivity

Human

### Type

Human IgG1 - kappa

### Expression Host

CHO

### Predicted N terminal

H chain: QVQLVES; L Chain: AIQLTQS

### Purity

>95.0% as determined by analysis by RP-HPLC.

### Applications

Suitable for use in ELISA, FC, IP, FuncS, IF, Neut, IHC and most other immunological methods.

### Storage

Store it under sterile conditions at -20°C upon receiving. Recommend to pack the protein into smaller quantities for optimal storage.

## BACKGROUND

**Keywords**

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**ANTIGEN GENE INFORMATION****Gene Name**

[EGFR epidermal growth factor receptor \[ Homo sapiens \]](#)

**Official Symbol**

EGFR

**Synonyms**

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;

**Gene ID**

[1956](#)

**mRNA Refseq**

[NM\\_005228](#)

**Protein Refseq**

[NP\\_005219](#)

**MIM**

[131550](#)

**UniProt ID**

P00533

**Chromosome Location**

7p12

**Pathway**

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;

**Function**

ATP binding; MAPK/ERK 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;