

## Anti-EGFR Antibody (9Y91)

## Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	9Y91
Purification:	Protein A

## Applications

Verified Activity:	Immunofluorescence staining of EGFR in A431 cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with rabbit anti-human EGFR monoclonal antibody (dilution ratio 1:60) at 4°C overnight. Then cells were stained with the Alexa Fluor®488-conjugated Goat Anti-rabbit IgG secondary antibody (green). Positive staining was localized to Cytoplasm and Cell membrane.
Application:	ELISA, ICC/IF
Recommended	ELISA: 1:5000-1:10000; ICC-IF: 1:20-1:100

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	Recombinant Protein: Human EGFR / HER1 / ErbB1 protein (TMPY-00742)
Antigen Species:	Human
Synonyms:	epidermal growth factor receptor; HER1; PIG61; mENA; NISBD2; ERBB; ERBB1
Biology Area:	Cancer Drug Targets, Receptor Tyrosine Kinases (RTKs)

## Research Background

As a member of the epidermal growth factor receptor (EGFR) family, EGFR protein is type I transmembrane glycoprotein that binds a subset of EGF family ligands including EGF, amphiregulin, TGF- $\alpha$ , betacellulin, etc. EGFR protein plays a crucial role in signaling pathway in the regulation of cell proliferation, survival and differentiation. Binding of a ligand induces EGFR protein homo- or heterodimerization, the subsequent tyrosine autophosphorylation and initiates various down stream pathways (MAPK, PI3K/PKB and STAT). In addition, EGFR signaling also has been shown to exert action on carcinogenesis and disease progression, and thus EGFR protein is proposed as a target for cancer therapy currently. Cancer Immunotherapy Immune Checkpoint Immunotherapy Targeted Therapy

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