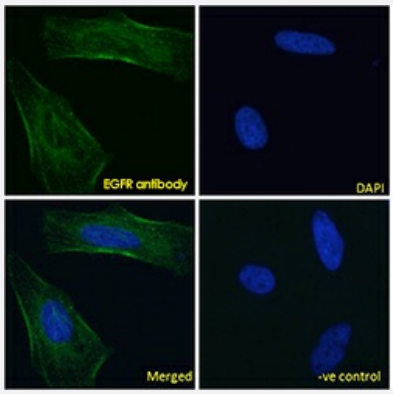
RecomAb™ HuAb

# EGFR humanized monoclonal antibody, clone h-R3 (Nimotuzumab)

Catalog # RAB01161 Size 200 ug

## Applications




### Immunofluorescence

Immunofluorescence analysis of unpermeabilisd paraformaldehyde fixed HeLa cells on coverslips stained with the chimeric rabbit version of h-R3 at 10 ug/mL for 1h followed by Alexa Fluor 488 secondary antibody (1 ug/mL), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom Ab00723-23.0, DAPI, merged channels and an isotype control. The isotype control was stained with unimmunised rabbit IgG followed by Alexa Fluor 488 secondary antibody.

## Specification

| | |
|---|---|
| **Product Description** | Humanized recombinant monoclonal antibody raised against human EGFR. |
| **Antibody Species** | Human |
| **Immunogen** | Original antibody is raised against by humanisation of the murine antibody R3, raised against EGFR purified from placenta membranes and A431 tumors. |
| **Reactivity** | Human |
| **Specificity** | Binds to human EGFR domain III at a site distinct from antibody 7A7 (Talavera et al. 2011). |
| **Form** | Liquid |
| **Preparation Method** | Mammalian cell (HEK293) expression system |
| **Purification** | Protein A affinity purification |
| **Isotype** | IgG1, Kappa |

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| | |
|---|---|
| **Recommend Usage** | Immunofluorescence<br>The optimal working dilution should be determined by the end user. |
| **Storage Buffer** | In PBS with 0.02% Proclin 300 |
| **Storage Instruction** | Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C. |

## Applications

- Immunofluorescence

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## Gene Info — EGFR

| | |
|---|---|
| **Entrez GeneID** | 1956 |
| **Protein Accession#** | P00533 |
| **Gene Name** | EGFR |
| **Gene Alias** | ERBB, ERBB1, HER1, PIG61, mENA |
| **Gene Description** | epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian ) |
| **Omim ID** | 131550 211980 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protei n 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. Binding of the protein to a lig and induces receptor dimerization and tyrosine autophosphorylation and leads to cell proliferation . Mutations in this gene are associated with lung cancer. [provided by RefSeq |
| **Other Designations** | avian erythroblastic leukemia viral (v-erb-b) oncogene homolog\|cell growth inhibiting protein 40\|ce ll proliferation-inducing protein 61\|epidermal growth factor receptor |

## Pathway

- Adherens junction

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- Bladder cancer
- Calcium signaling pathway
- Colorectal cancer
- Cytokine-cytokine receptor interaction
- Dorso-ventral axis formation
- Endocytosis
- Endometrial cancer
- Epithelial cell signaling in Helicobacter pylori infection
- ErbB signaling pathway
- Focal adhesion
- Gap junction
- Glioma
- GnRH signaling pathway
- MAPK signaling pathway
- Melanoma
- Non-small cell lung cancer
- Pancreatic cancer
- Pathways in cancer
- Prostate cancer
- Regulation of actin cytoskeleton

## Disease

- Adenocarcinoma
- Anus Neoplasms
- Asthma
- Astrocytoma

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- Atherosclerosis
- Barrett Esophagus
- Bile Duct Neoplasms
- Biliary Tract Neoplasms
- Bipolar Disorder
- Brain Neoplasms
- Breast cancer
- Breast Neoplasms
- Bronchial Hyperreactivity
- Carcinoma
- Cardiomyopathy
- Cardiovascular Diseases
- Cell Transformation
- Central Nervous System Neoplasms
- Cervical Intraepithelial Neoplasia
- Cholangiocarcinoma
- Chromosome Aberrations
- Chromosome Deletion
- Cleft Lip
- Cleft Palate
- Cocarcinogenesis
- Colon cancer
- Colonic Neoplasms
- Colorectal Neoplasms
- Cystadenocarcinoma
- Diabetes Mellitus

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- Diarrhea
- Disease Progression
- Disease Susceptibility
- DNA Damage
- Drug Eruptions
- Drug Toxicity
- Edema
- Endometrial Neoplasms
- Endometriosis
- Esophageal Neoplasms
- Exanthema
- Genetic Diseases
- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Head and Neck Neoplasms
- Hepatitis C
- HIV Infections
- Hyperparathyroidism
- Hypersensitivity
- Hypopharyngeal Neoplasms
- Kidney Failure
- Kidney Neoplasms
- Liver Diseases
- Liver Neoplasms
- Lung carcinoma

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- Lung Neoplasms
- Lupus Erythematosus
- Lymphatic Metastasis
- Mental Disorders
- Mouth Neoplasms
- Myoma
- Nasopharyngeal Neoplasms
- Neoplasm Invasiveness
- Neoplasm Metastasis
- Neoplasm Recurrence
- Neoplasms
- Osteosarcoma
- Otorhinolaryngologic Neoplasms
- Ovarian cancer
- Ovarian Neoplasms
- Pancreatic cancer
- Pancreatic Neoplasms
- Papillomavirus Infections
- Polycystic Kidney
- Polycystic kidney disease
- Precancerous Conditions
- Prostate cancer
- Prostatic Hyperplasia
- Prostatic Neoplasms
- Pulmonary Disease
- Ras oncogene

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- Rectal Neoplasms
- Recurrence
- Skin Neoplasms
- Small Cell Lung Carcinoma
- Stomach Neoplasms
- Thyroid Neoplasms
- Tongue Neoplasms
- Tonsillar Neoplasms
- Urinary Bladder Neoplasms
- Urinary Calculi
- Uterine Cervical Neoplasms
- Uterine Neoplasms
- Viremia
- Werner syndrome

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