

## Datasheet for ABIN7320051 EGFR Protein (His tag)

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### 1 Image

#### Overview

|                               |                                             |
|-------------------------------|---------------------------------------------|
| Quantity:                     | 100 µg                                      |
| Target:                       | EGFR                                        |
| Origin:                       | Mouse                                       |
| Source:                       | HEK-293 Cells                               |
| Protein Type:                 | Recombinant                                 |
| Biological Activity:          | Active                                      |
| Purification tag / Conjugate: | This EGFR protein is labelled with His tag. |

#### Product Details

|                              |                                                                                                                                                                                                                                                                                                          |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:                     | Recombinant Mouse EGFR Protein (His Tag)(Active)                                                                                                                                                                                                                                                         |
| Sequence:                    | Met 1-Ser 647                                                                                                                                                                                                                                                                                            |
| Characteristics:             | A DNA sequence encoding the extracellular domain of mouse EGFR (Q01279) (Met 1-Ser 647) was fused with a polyhistidine tag at the C-terminus.                                                                                                                                                            |
| Purity:                      | > 95 % as determined by SDS-PAGE                                                                                                                                                                                                                                                                         |
| Endotoxin Level:             | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                                                                                          |
| Biological Activity Comment: | 1. Measured by its binding ability in a functional ELISA.2. Immobilized mouse EGFR-his at 10 µg/mL (100 µl/well) can bind human EGF-Fc, The EC50 of human EGF-Fc is 60-90 ng/mL.3. Immobilized mouse EGFR-his at 10 µg/mL (100 µl/well) can bind mouse EGF-Fc, The EC50 of mouse EGF-Fc is 70-100 ng/mL. |

## Target Details

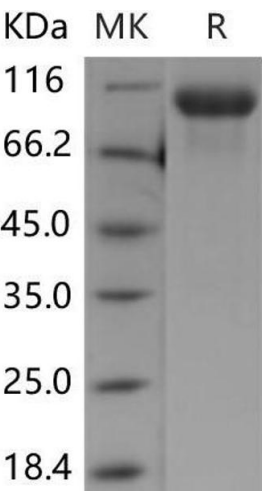
|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | EGFR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Alternative Name: | EGFR ( <a href="#">EGFR Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Background:       | <p>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-<math>\alpha</math>, 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.</p> <p>Immune Checkpoint Immunotherapy Cancer Immunotherapy Targeted Therapy</p> <p>Synonym: 9030024J15Rik;AI552599;ErbB;Errb1;Errp;wa-2;wa2;Wa5</p> |
| Molecular Weight: | 71 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| UniProt:          | <a href="#">Q01279</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Pathways:         | <a href="#">NF-kappaB Signaling</a> , <a href="#">RTK Signaling</a> , <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Stem Cell Maintenance</a> , <a href="#">Hepatitis C</a> , <a href="#">Positive Regulation of Response to DNA Damage Stimulus</a> , <a href="#">Interaction of EGFR with phospholipase C-gamma</a> , <a href="#">Thromboxane A2 Receptor Signaling</a> , <a href="#">EGFR Downregulation</a> , <a href="#">S100 Proteins</a>                                                                                                                                                                                                                                                                                                                                                          |

## Application Details

|               |                       |
|---------------|-----------------------|
| Restrictions: | For Research Use only |
|---------------|-----------------------|

## Handling

|                  |                                                                                                                                                                                                                                                        |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Format:          | Lyophilized                                                                                                                                                                                                                                            |
| Reconstitution:  | Please refer to the printed manual for detailed information.                                                                                                                                                                                           |
| Buffer:          | Lyophilized from sterile PBS, pH 7.4                                                                                                                                                                                                                   |
| Storage:         | 4 °C,-20 °C,-80 °C                                                                                                                                                                                                                                     |
| Storage Comment: | <p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p> |



Western Blotting

Image 1.