

# Active Recombinant Mouse Erbb4 Protein, His-tagged, Alexa Fluor 555 conjugated

**Cat. No.** Erbb4-7416MAF555    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                       |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Alexa Fluor 555 conjugated recombinant Mouse Erbb4 protein (Q61527) (Met1-Leu652) is produced by HEK293 Cells expression system. This protein is fused with a His tag at the C-terminus.                                              |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                 |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | Met1-Leu652 638                                                                                                                                                                                                                       |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                           |
| <b>Bio-activity</b>     | Measured by its binding ability in a functional ELISA. Immobilized mouse ERBB4-His at 10 µg/mL (100 µL/well) can bind biotinylated human NRG1, The EC50 of biotinylated human NRG1 is 0.55-1.29 µg/mL.                                |
| <b>Molecular Mass</b>   | The recombinant mouse ERBB4 comprises 638 amino acids and has a predicted molecular mass of 71.5 kDa. The apparent molecular mass of the protein is approximately 113 kDa in SDS-PAGE under reducing conditions due to glycosylation. |
| <b>Endotoxin</b>        | < 1.0 EU/ µg of the protein as determined by the LAL method.                                                                                                                                                                          |
| <b>Purity</b>           | > 95 % as determined by SDS-PAGE                                                                                                                                                                                                      |

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|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Characteristic</b> | <p>Disulfide-linked homodimer</p> <p>Labeled with Alexa Fluor 555 via amines</p> <p>With an excitation and emission maximum of 555/565 nm, Alexa Fluor 555 can be efficiently excited using a 543 nm He-Ne laser line and detected under standard TRITC/Cy3 filters.</p> |
| <b>Stability</b>      | Samples are stable for up to 12 months from date of receipt at -70 centigrade.                                                                                                                                                                                           |
| <b>Storage</b>        | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.                                                                                                      |
| <b>Storage Buffer</b> | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.                                                                                                                                                                                                              |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/mL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.                                                                                   |
| <b>Shipping</b>       | <p>Shipped at ambient temperature.</p> <p>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.</p>                                                                                |
| <b>Conjugation</b>    | Alexa Fluor 555                                                                                                                                                                                                                                                          |

## GENE INFORMATION

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">ErbB4 v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) [ Mus musculus ]</a> |
| <b>Official Symbol</b> | <a href="#">ErbB4</a>                                                                                   |
| <b>Synonyms</b>        | ERBB4; v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian); Her4; c-                       |

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|                |           |
|----------------|-----------|
|                | erbB-4;   |
| Gene ID        | 13869     |
| mRNA Refseq    | NM_010154 |
| Protein Refseq | NP_034284 |
| UniProt ID     | Q61527    |

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