

# Active Recombinant Mouse V-Erb-B2 Erythroblastic Leukemia Viral Oncogene Homolog 3 (avian), Fc-tagged

Cat. No. Erbb3-470M Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Erbb3 protein was expressed in Murine myeloma cell line with the Fc part of mouse IgG2a.Ser20-His641.
<b>Species</b>	Mouse
<b>Source</b>	Mammalian Cells
<b>ProteinLength</b>	20-641 a.a.
<b>Description</b>	Erbb3, also called HER3(human epidermal growth factor receptor 3) in humans, is a type I transmembraneglycoprotein that is a member of the ErbB family of tyrosine kinase receptors named for a viral oncogene. ErbB family members serve as receptors for the EGF family of growth factors. Mouse Erbb3 contains a 19 amino acid (aa) signal sequence, a 622 aa extracellular domain (ECD), a 24 aa transmembrane region, and a 677 aacytoplasmic domain.
<b>Form</b>	Lyophilized from a 0.2µm filtered solution in PBS.
<b>N-terminalSequence</b>	Ser20
<b>Molecular Weight</b>	95.6 kDa
<b>Activity</b>	Measured by its ability to bind rhNRG1β1 extracellular domain in a functional ELISA with an estimated KD < 15 nM.

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<b>Endotoxin Level</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Reconstitution</b>	Reconstitute at 100 µg/mL in sterile PBS
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">ErbB3 v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian) [ Mus musculus ]</a>
<b>Official Symbol</b>	<a href="#">ErbB3</a>
<b>Synonyms</b>	ErbB3; v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian); Her3; C76256; ErbB-3; ErbB3r; receptor tyrosine-protein kinase erbB-3; c-erbB-3; receptor tyrosine kinase; glial growth factor receptor; proto-oncogene-like protein c-ErbB-3; avian erythroblastosis oncogene B 3 receptor; EC 2.7.10.1
<b>Gene ID</b>	<a href="#">13867</a>
<b>mRNA Refseq</b>	<a href="#">NM_010153</a>
<b>Protein Refseq</b>	<a href="#">NP_034283</a>
<b>UniProt ID</b>	<a href="#">Q61526</a>
<b>Chromosome</b>	10 D3; 10 70.0 cM

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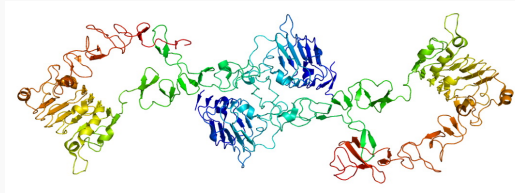
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**Location****Pathway**

Calcium signaling pathway; Endocytosis; ErbB signaling pathway; IL-6 signaling Pathway

**Function**

ATP binding; growth factor binding; kinase activity; nucleotide binding; protein binding; protein heterodimerization activity; protein kinase activity; protein tyrosine kinase activator activity; NOT protein tyrosine kinase activity; receptor activity; receptor signaling protein tyrosine kinase activity; transferase activity; transferase activity; transmembrane receptor protein tyrosine kinase activity

**PDB rendering based on 1m6b.**

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