

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

Product Overview	Recombinant Mouse Erbb3protein was expressed in Murine myeloma cell line with the Fc part of mouse IgG2a.Ser20-His641.
Species	Mouse
Source	Mammalian Cells
ProteinLength	20-641 a.a.
Description	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 receptorsnamed for a viral oncogene. ErbB family members serve as receptors for the EGFfamily 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.
Form	Lyophilized from a 0.2µm filtered solution in PBS.
N-terminalSequence	Ser20
Molecular Weight	95.6 kDa
Activity	Measuredby its ability to bind rhNRG1β1 extracellular domain in a functional ELISA withan estimated KD < 15 nM.

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Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS
Storage	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

Gene Name	ErbB3 v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian) [Mus musculus]
Official Symbol	ErbB3
Synonyms	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
Gene ID	13867
mRNA Refseq	NM_010153
Protein Refseq	NP_034283
UniProt ID	Q61526
Chromosome	10 D3; 10 70.0 cM

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Location	
Pathway	Calcium signaling pathway;Endocytosis; ErbB signaling pathway; IL-6 signaling Pathway
Function	ATP binding; growth factorbinding; kinase activity; nucleotide binding; protein binding; protein heterodimerizationactivity; protein kinase activity; protein tyrosine kinase activator activity;NOT protein tyrosine kinase activity; receptor activity; receptor signaling proteintyrosine kinase activity; transferase activity; transferase activity; transmembranereceptor protein tyrosine kinase activity
PDB renderingbased on 1m6b.	