Recombinant Mouse Erbb2 Protein, His-tagged, Alexa Fluor 647 conjugated

Cat. No. Erbb2-1152MAF647 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Erbb2 Protein (23-653aa), was expressed in human 293 cells (HEK293) with C-terminal His tag and Alexa Fluor 647 conjugate.
Species	Mouse
Source	HEK293
ProteinLength	23-653 aa
Description	Human Epidermal growth factor Receptor 2 (HER2) is also called ERBB2, HER-2,HER-2/neu, NEU, NGL,TKR1 and c-erb B2,and is a protein giving higher aggressiveness in breast cancers. It is a member of the ErbB protein family, more commonly known as the epidermal growth factor receptor family. HER2 is a cell membrane surface-bound receptor tyrosine kinase and is normally involved in the signal transduction pathways leading to cell growth and differentiation. HER2 is thought to be an orphan receptor, with none of the EGF family of ligands able to activate it. Approximately 30% of breast cancers have an amplification of the HER2 gene or overexpression of its protein product. Overexpression of this receptor in breast cancer is associated with increased disease recurrence and worse prognosis. HER2 appears to play roles in development, cancer,communication at the neuromuscular junction andregulation of cell growth and differentiation.
Form	Lyophilized

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Molecular Mass	The protein has a calculated MW of 70.6 kDa. The protein migrates as 80-95 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
N-terminal Sequence Analysis	Thr 23
Endotoxin	< 1.0 EU/ μg by the LAL method.
Purity	> 95 % as determined by SDS-PAGE
Characteristic	Disulfide-linked homodimer Labeled with Alexa Fluor 647 via amines Excitation = 650 nm Emission = 668 nm
Storage	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4, 10% trehalose.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.
Conjugation	Alexa Fluor 647

GENE INFORMATION

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Gene Name	Erbb2
Official Symbol	Erbb2
Synonyms	ERBB2; v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian); receptor tyrosine-protein kinase erbB-2; c-erbB-2; p185erbB2; Neu oncogene; proto-oncogene NEU; proto-oncogene c-ErbB-2; avian erythroblastosis oncogene B 2; Neu; HER2; HER-2; c-neu; Erbb-2; c-erbB2; mKIAA3023
Gene ID	13866
mRNA Refseq	NM_001003817
Protein Refseq	NP_001003817
UniProt ID	P70424

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