

Recombinant Human ERBB2 Protein, hFc-tagged, Alexa Fluor 647 conjugated

Cat. No. ERBB2-40HAF647 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human ERBB2 Protein (23-450aa), was expressed in human 293 cells (HEK293) with C-terminal human IgG1 Fc tag and Alexa Fluor 647 conjugate.

Species

Human

Source

HEK293

ProteinLength

23-450 aa

Description

Human Epidermal growth factor Receptor 2 (HER2), 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 and regulation of cell growth and differentiation.

Form

Lyophilized

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Molecular Mass	The protein has a calculated MW of 74.5 kDa. The reducing (R) protein migrates as 95-100 kDa in SDS-PAGE due to glycosylation.
N-terminal Sequence Analysis	The predicted N-terminus is 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 Tris with Glycine, Arginine and NaCl, pH7.5, 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

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GENE INFORMATION

Gene Name ERBB2

Official Symbol ERBB2

Synonyms ERBB2; v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian); NGL, v erb b2 avian erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma derived oncogene homolog); receptor tyrosine-protein kinase erbB-2; CD340; HER 2; HER2; NEU; herstatin; p185erbB2; proto-oncogene Neu; c-erb B2/neu protein; proto-oncogene c-ErbB-2; metastatic lymph node gene 19 protein; tyrosine kinase-type cell surface receptor HER2; neuroblastoma/glioblastoma derived oncogene homolog; v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma derived oncogene homolog); NGL; TKR1; HER-2; MLN 19; HER-2/neu

Gene ID 2064

mRNA Refseq NM_001005862

Protein Refseq NP_001005862

MIM 164870

UniProt ID P04626

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