

Active Recombinant Human ERBB2 Protein, Fc/His-tagged, Alexa Fluor® 488 conjugated

Cat. No. ERBB2-13H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Human Erb B2 Protein (23-652aa), was expressed in mouse myeloma cell line with C-terminal human IgG1 Fc tag (Pro100-Lys330)C-terminal His tag and Alexa Fluor® 488 conjugate.

Species

Human

Source

NS0

ProteinLength

23-652 aa

Description

This gene encodes a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported, with the most common allele, Ile654/Ile655, shown here. Amplification and/or overexpression of this gene has been reported in numerous cancers, including breast and ovarian tumors. Alternative splicing results in several additional transcript variants, some encoding different isoforms and others that have not been fully characterized.

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Form	Disulfide-linked homodimer Labeled with Alexa Fluor® 488 via amines Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Bio-activity	Measured by flow cytometry for its ability to bind anti-Human ErbB2/Her2 Monoclonal Antibody conjugated beads. The concentration of Recombinant Human ErbB2/Her2 Fc Chimera Alexa Fluor® 488 that produces 50% of the binding response is 10.0-100 ng/mL.
Molecular Mass	97 kDa
N-terminal Sequence Analysis	Thr23
Endotoxin	<1.0 EU/μg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Protect from light. Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after opening. 3 months, -20 to -70 centigrade under sterile conditions after opening.
Storage Buffer	Supplied as a 0.2 μm filtered solution in PBS with BSA as a carrier protein.
Shipping	The product is shipped with dry ice or equivalent.
Conjugation	Alexa Fluor 488

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GENE INFORMATION

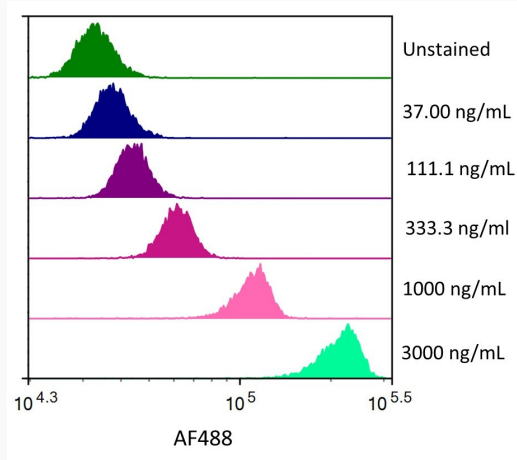
Gene Name	ERBB2 erb-b2 receptor tyrosine kinase 2 [Homo sapiens (human)]
Official Symbol	ERBB2
Synonyms	ERBB2; erb-b2 receptor tyrosine kinase 2; NEU; NGL; HER2; TKR1; CD340; HER-2; VSCN2; MLN 19; c-ERB2; c-ERB-2; HER-2/neu; receptor tyrosine-protein kinase erbB-2; c-erb B2/neu protein; herstatin; human epidermal growth factor receptor 2; metastatic lymph node gene 19 protein; neuro/glioblastoma derived oncogene homolog; neuroblastoma/glioblastoma derived oncogene homolog; proto-oncogene Neu; proto-oncogene c-ErbB-2; tyrosine kinase-type cell surface receptor HER2; v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2; v-erb-b2 avian erythroblastic leukemia viral oncoprotein 2; v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog; EC 2.7.10.1
Gene ID	2064
mRNA Refseq	NM_004448
Protein Refseq	NP_004439
MIM	164870
UniProt ID	P04626

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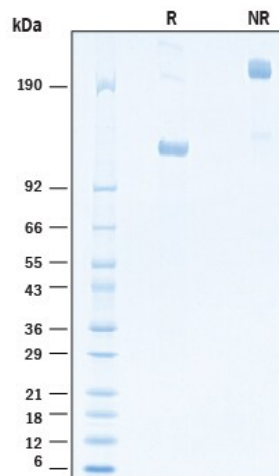
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FC



Streptavidin coated beads conjugated to biotinylated anti-human ErbB2/Her2 Monoclonal Antibody were stained with the indicated concentrations of Recombinant Human ErbB2/Her2 Fc Chimera His-tag Alexa Fluor® 488.

SDS-PAGE



2 µg/lane of Recombinant Human ErbB2/Her2 Fc His Alexa Fluor® 488 Protein was resolved with SDS-PAGE under reducing (R) and non-reducing (NR) conditions and

visualized by Coomassie® Blue staining, showing bands at 115-130 kDa and 230-260 kDa, respectively.

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