Recombinant Human HER2 (V777_G778insCG), GST-tagged

Cat. No. ERBB2-61H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HER2 (V777_G778insCG) (676-end) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	676-end a.a.
Description	HER2 gene encodes a cell-surface glycoprotein tyrosine kinase receptor with extensive homology to the epidermal growth factor receptor. HER2 is an oncogene and overexpression of unaltered HER2 coding sequences in NIH 3T3 cells results in cellular transformation and tumorigenesis. HER2 is amplified in about 30% of primary human breast malignancies and overexpression of HER2 is associated with the most aggressive tumors that show uncontrolled proliferation, resistance to apoptosis and increased motility.
Form	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Molecular Mass	~116 kDa
Applications	Kinase Assay
Storage	Store product at –70oC. For optimal storage, aliquot target into smaller quantities

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name	ERBB2 v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 [Homo sapiens (human)]
Official Symbol	ERBB2
Synonyms	NEU; NGL; HER2; TKR1; CD340; HER-2; HER-2/neu; EC 2.7.10.1; C-erbB-2; erbB-2; c-erb B2/neu protein; erbB-2; herstatin; neuroblastoma/glioblastoma derived oncogene homolog; v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma derived oncogene homolog); NEU proto-oncogene; MLN 19; CD340 antigen; ERBB2
Gene ID	2064
mRNA Refseq	NM_001005862
Protein Refseq	NP_001005862
MIM	164870
UniProt ID	P04626
Chromosome Location	17q21.1
Pathway	Adherens junction; Calcium signaling pathway; Dorso-ventral axis formation Endometrial cancer; ErbB signaling pathway; Focal adhesion; Non-small cell lung

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	cancer; Pancreatic cancer;
Function	ATP binding; ErbB-3 class receptor binding; calcium ion binding; epidermal growth factor receptor activity; identical protein binding; non-membrane spanning protein tyrosine kinase activity; protein tyrosine kinase activity

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA