

Recombinant Human HER2 (A775_G776insYVMA), GST-tagged

Cat. No. ERBB2-60H Lot. No. (See product label)

SPECIFICATION

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|-------------------------|---|
| Product Overview | Recombinant human HER2 (A775_G776insYVMA) (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 |

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

GENE INFORMATION

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|----------------------------|---|
| 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 |

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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

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