# Recombinant Human ERBB4, GST-tagged, Active

**Cat. No.** ERBB4-329H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant human HER4 (682-993) was expressed by baculovirus in*Sf9 insect cell*susing an N-terminal GST tag. MW = 57 kDa. |
| **Species** | Human |
| **Source** | Sf9 Cells |
| **ProteinLength** | 682-993 a.a. |
| **Description** | HER4 or ERBB4 is a transmembrane receptor tyrosine kinase that belongs to epidermal growth factor receptor family (1). Through its interaction with its activating ligand heregulin, HER4 can regulate proliferation and differentiation of cells (2). HER4 ectodomain is cleaved by a metalloprotease, gamma-secretase that releases the HER4 intracellular domain from the membrane and facilitates its translocation to the nucleus. The kinase activity of HER4 is both necessary and sufficient to trigger an antiproliferative response in human breast cancer cells. Increased expression of HER4 has been detected in various cancers and this usually correlates to better survival. |
| **Sequence** | 682-993. |
| **Applications** | Kinase Assay, Western Blot. |
| **Storage And Stability** | Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable |

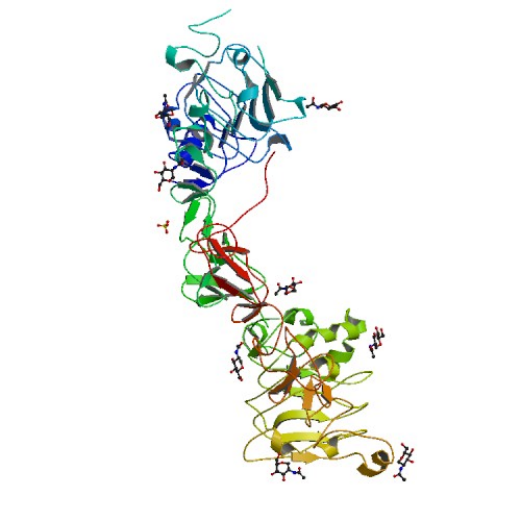
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| | performance, avoid repeated handling and multiple freeze/thaw cycles. |

## GENE INFORMATION

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| **Gene Name** | ERBB4 v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian) [ Homo sapiens ] |
| **Synonyms** | ERBB4; v-erb-a erythroblastic leukemia viral oncogene homolog 4 (avian); v-erb-a avian erythroblastic leukemia viral oncogene homolog-like 4; Receptor tyrosine-protein kinase erbB-4; HER4; Tyrosine kinase-type cell surface receptor HER4; p180erbB4; EC 2.7.10.1; MGC138404; avian erythroblastic leukemia viral (v-erb-b2) oncogene homolog 4; receptor tyrosine-protein kinase erbB-4; v-erb-a erythroblastic leukemia viral oncogene homolog 4 |
| **Gene ID** | 2066 |
| **mRNA Refseq** | NM_001042599 |
| **Protein Refseq** | NP_001036064 |
| **MIM** | 600543 |
| **UniProt ID** | Q15303 |
| **Chromosome Location** | 2q33.3-q34 |
| **Pathway** | Calcium signaling pathway; Endocytosis; ErbB signaling pathway |
| **Function** | ATP binding; nucleotide binding; protein binding; receptor activity; receptor signaling protein tyrosine kinase activity; transferase activity; transmembrane receptor protein tyrosine kinase activity |

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| **PDB rendering based on 2ahx.** |  |

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