

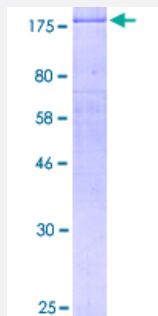
Full-Length

ERBB2 (Human) Recombinant Protein (P01)

Catalog # H00002064-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ERBB2 full-length ORF (AAI56756.1, 1 a.a. - 1255 a.a.) recombinant protein with GST tag at N-terminal.

Sequence

MELAALCRWGLLLALLPPGAASTQVCTGTDMKLRLPASPETHLDMRLHLYQGCQVVQGNLELTY
LPTNASLSFLQDIQEVQGYVLIHNPQVPLQRLRVRGTQLFEDNYALAVLDNGDPLNNTTPVTG
ASPGGLRELQLRSLTEILKGGVLIQRNPQLCYQDTILWKDIFHKNNQLALTLIDTNRSRACHPCSPM
CKGSRCWGESSEDCQSLTRTVCAAGGCARCKGPLPTDCCHEQCAAGCTGPKHSDCLACLHFN
HSGICELHCPALVTYNTDTFESMPNPEGRTYFGASCVTACPYNYLSTDVGSCTLVCPLHNQEVT
EDGTQRCEKCSKPCARVCYGLGMEHLREVRVTSANIQEFAGCKKIFGSLAFLPESFDGDPASN
TAPLQPEQLQVFETLEEITGYLYSAWPDSPDLVSVFQNLQVIRGRILHNGAYSLTLQGLGISWLGLR
SLRELGSGLALIHNNHLCFVHTVPWDQLFRNPHQALLHTANRPEDECVGEGLACHQLCARGHC
WGPAPTQCVNCSQFLRGQECVEECRVLQGLPREYVNRHCLPCHPECQPQNGSVTCFGPEAD
QCVACAHYKDPFPCVARCPGSKPDLSYMPWKFPDEEGACQPCPINCTHSCVDLDDKGCPAE
QRASPLTSIISAVVGILLVVVLGVVFGILIKRRQKIRKYTMRRLLQETELVEPLTPSGAMPNQAQMRI
LKETELRKVKVLGSGAFGTVYKGMWIPDGENVKIPVAKVLRENTSPKANKEILDEAYVMAGVGSFY
VSRLLGICLTSTVQLVTQLMPYGCLLDHVRENRRGLGSQDLLNWCMAKGMSTYLEDVRLVHRDL
AARNVLVKSPNHVKITDFGLARLLDIDETEHADGGKVPKWMALLESILRRRFTHQSDVWSYGVTV
WELMTFGAKPYDGIPAREIPDLLEKGERLPQPPICITIDVYMMVKCWMIDSECRPRFRELVSFESR
MARDPQRFVVIQNEDLGPASPLDSTFYRSLLEDDDMGDLVDAEEYLVPQQGFFCPDPAPGAGG
MVHHRHRSSSTRSGGGDLTLGLEPSEEEAPRSPLAPSEGAGSDVFDGDLGMGAAGLQSLPTH
DPSPLQRYSEDPTVPLPSETDGYVAPLTCSPQPEYVNQPDVRPQPPSPREGPLPAARPAGATLE
RPKTLSPGKNGVVKDVFAFGGAVENPEYLTQGGGAAPQPHPPAFSPAFDNLYWDQDPPERG
APPSTFKGTPTAENPEYLGLDVPV

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)	164.45
Interspecies Antigen Sequence	Mouse (88); Rat (88)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ERBB2

Entrez GeneID	2064
GeneBank Accession#	BC156755.1
Protein Accession#	AA156756.1
Gene Name	ERBB2
Gene Alias	CD340, HER-2, HER-2/neu, HER2, NEU, NGL, TKR1
Gene Description	v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)
Omim ID	137215 137800 164870 211980
Gene Ontology	Hyperlink

Gene Summary

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 (position 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. [provided by RefSeq]

Other Designations

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)

Publication Reference

- [A multiparametric serum marker panel as a complementary test to mammography for the diagnosis of node negative early-stage breast cancer and DCIS in young women.](#)

Lacombe J, Mange A, Bougnoux AC, Prassas I, Solassol J.

Cancer Epidemiology, Biomarkers & Prevention 2014 Sep; 23(9):1834.

Application: ELISA, Human, Serum

- [Highly specific recognition of breast tumors by an RNA-cleaving fluorogenic DNzyme probe.](#)

He S, Qu L, Shen Z, Tan Y, Zeng M, Liu F, Jiang Y, Li Y.

Analytical Chemistry 2015 Jan; 87(1):569.

Application: WB-Re, Human, MDA-MB-231 cells

- [Synthesis of the mutant sequences for HER2 and survivin mimetic peptides of bladder cancer.](#)

Yiming Lai, Yi Cao, Hai Huang, Jieqing Chen, Lexiang Zeng, Kewei Xu, Chun Jiang, Jinli Han, Wen Dong, Yiming Zhang, Jin Li, Ganping Wang, Zhenghui Guo.

Life Science Journal 2013 Nov; 10(4):2963.

Application: ELISA, Recombinant protein

Pathway

- [Adherens junction](#)
- [Bladder cancer](#)
- [Calcium signaling pathway](#)

- [Endometrial cancer](#)
- [ErbB signaling pathway](#)
- [Focal adhesion](#)
- [Non-small cell lung cancer](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)

Disease

- [Adenocarcinoma](#)
- [Ataxia telangiectasia](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Cell Transformation](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colorectal Neoplasms](#)
- [Disease Progression](#)
- [Endometrial Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Fibroadenoma](#)
- [Gastritis](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)

- [Head and Neck Neoplasms](#)
- [Heart Diseases](#)
- [Kidney Failure](#)
- [Laryngeal Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphatic Metastasis](#)
- [Mouth Neoplasms](#)
- [Neoplasm Invasiveness](#)
- [Neoplasm Metastasis](#)
- [Neoplasm Recurrence](#)
- [Neoplasms](#)
- [Obesity](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Papillomavirus Infections](#)
- [Pharyngeal Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Hyperplasia](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Skin Neoplasms](#)
- [Stomach Neoplasms](#)
- [Thyroid Neoplasms](#)
- [Tooth Abnormalities](#)

- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Werner syndrome](#)