

# Receptor tyrosine-protein kinase erbB-2 Recombinant Protein | ERBB2 recombinant protein

Recombinant Human Receptor tyrosine-protein kinase erbB-2

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| CATALOG #<br><b>AAA309765</b> | HOST<br><b>E Coli</b> | REACTIVITY<br><b>Human</b> |
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## PRODUCT SYNONYMS

Receptor tyrosine-protein kinase erbB-2; Recombinant Human Receptor tyrosine-protein kinase erbB-2; Metastatic lymph node gene 19 protein; MLN 19Proto-oncogene NeuProto-oncogene c-ErbB-2Tyrosine kinase-type cell surface receptor HER2p185erbB2; CD340; ERBB2 recombinant protein

## PRODUCT SPECIFICATIONS

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| Host                    | E Coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Reactivity              | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Purity/Purification     | Greater than 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Form/Format             | Tris-based buffer50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Sequence Positions      | 153-598aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Sequence                | VLIQRNPQLC YQDTILWKDI FHKNNQLALT LIDTNRSRAC HPCSPMCKGS RCWGESSEDC QSLTRTVCA<br>GCARCKGPLP TDCCHEQCAA GCTGPKHSDC LACLHFNHSG ICELHCPALV TYNTDTFESM PNPEGRYTFG<br>ASCVTACPYN YLSTDVGSC T LVCPLHNQEV TAEDGTQRCE KCSKPCARVC YGLGMEHLRE VRAVTSANIQ<br>EFAGCKKIFG SLAFLPESFD GDPASNTAPL QPEQLQVFET LEEITGYLYI SAWPDSLPLD SVFQNLQVIR<br>GRILHNGAYS LTLQGLGISW LGLRSLRELG SGLALIHNT HLCFVHTVPW DQLFRNPHQA LLHTANRPED<br>ECVGEGLACH QLCARGHCWG PGPTQCVNCS QFLRGQECVE ECRVLQGLPR EYVNARHCLP CHPECQPQNG<br>SVTCFGPEAD QCVACAHYKD PPFCVA |
| Immunogen Description   | Expression Region:153-598aaSequence Info:Partial                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Calculated MW           | 53.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Tag Info                | N-terminal 6xHis-tagged                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Preparation and Storage | <p>The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.</p> <p>Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.</p> <p>Notes: Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.</p>                                                                                                             |

## ADDITIONAL INFORMATION

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| Related Product Information for ERBB2 recombinant protein | Protein tyrosine kinase that is part of several cell surface receptor complexes, but that apparently needs a coreceptor for ligand binding. Essential component of a neuregulin-receptor complex, although neuregulins do not interact with it alone. GP30 is a potential ligand for this receptor. Regulates outgrowth and stabilization of peripheral microtubules (MTs). Upon ERBB2 activation, the MO1-RHOA-DIAPH1 signaling pathway elicits the phosphorylation and thus the inhibition of GSK3B at cell mbrane. This prevents the phosphorylation of APC and CLASP2, allowing its association with the cell mbrane. In turn, mbrane-bound APC allows the localization of MACF1 to the cell mbrane, which is required for microtubule capture and stabilization.In the nucleus is involved in transcriptional regulation. Associates with the 5'-TCAAATTC-3' sequence in the PTGS2/COX-2 promoter and activates its transcription. Implicated in transcriptional activation of CDKN1A; the function involves STAT3 and SRC. Involved in the transcription of rRNA genes by RNA Pol I and enhances protein synthesis and cell growth. |
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NCBI AND UNIPROT INFORMATION

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| NCBI GI #                        | 54792098                                               |
| NCBI GeneID                      | 2064                                                   |
| NCBI Accession #                 | NP_001005862.1                                         |
| NCBI GenBank Nucleotide #        | NM_001005862.2                                         |
| UniProt Accession #              | P04626; Q14256; Q6LDV1; Q9UMK4; B2RZG3; B4DHN3; X5D2V5 |
| Molecular Weight                 | 53.2kD                                                 |
| NCBI Official Full Name          | receptor tyrosine-protein kinase erbB-2 isoform b      |
| NCBI Official Synonym Full Names | erb-b2 receptor tyrosine kinase 2                      |
| NCBI Official Symbol             | ERBB2                                                  |
| NCBI Official Synonym Symbols    | NEU; NGL; HER2; TKR1; CD340; HER-2; MLN 19; HER-2/neu  |
| NCBI Protein Information         | receptor tyrosine-protein kinase erbB-2                |
| UniProt Protein Name             | Receptor tyrosine-protein kinase erbB-2                |
| UniProt Gene Name                | ERBB2                                                  |
| UniProt Synonym Gene Names       | HER2; MLN19; NEU; NGL; MLN 19                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/erbb2-recombinant-protein-e-coli/309765>