

Human CellExp ErbB2 / HER2 / CD340, human recombinant protein
ERBB2, CD340, HER-2/neu, HER2, MLN19, NEU, NGL, TKR1
Catalog # PBV11020r

Specification

Human CellExp ErbB2 / HER2 / CD340, human recombinant protein - Product info

Primary Accession [P04626](#)
Calculated MW **This protein is fused with polyhistidine tag at the C-terminus, has a calculated MW of 72.4 kDa. The predicted N-terminus is Thr 23. DTT-reduced Protein migrates as 90-110 kDa due to glycosylation. KDa**

Human CellExp ErbB2 / HER2 / CD340, human recombinant protein - Additional Info

Gene ID **2064**
Gene Symbol **ErbB2**
Other Names
ERBB2, CD340, HER-2/neu, HER2, MLN19, NEU, NGL, TKR1

Gene Source **Human**
Source **HEK293 cells**
Assay&Purity **SDS-PAGE; ≥95%**
Assay2&Purity2 **N/A;**
Recombinant **Yes**
Results **Measured by its ability to block anti-ErbB2 mediated inhibition of SK-BR-3 human breast cancer cell proliferation. The ED50 for this effect is typically 5-45 ng/ml in the presence of 0.6 µg/ml goat anti-hErbB2.**

Target/Specificity
ErbB2

Application Notes
Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7.4 to a concentration of 50 µg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 month. For extended storage, it is recommended to store at -20°C.

Format
Lyophilized

Storage
-20°C; Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Generally 5-8% Mannitol or trehalose is added as a protectant before lyophilization.

Human CellExp ErbB2 / HER2 / CD340, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp ErbB2 / HER2 / CD340, human recombinant protein - Images

Human CellExp ErbB2 / HER2 / CD340, human recombinant protein - Background

Human Epidermal growth factor Receptor 2 (HER2) is also called ERBB2, HER-2, HER-2 /neu, NEU, NGL, TKR1 and c-erb B2, and is a protein giving higher aggressiveness in breast cancers. It is a member of the ErbB protein family, more commonly known as the epidermal growth factor receptor family. HER2 is a cell membrane surface-bound receptor tyrosine kinase and is normally involved in the signal transduction pathways leading to cell growth and differentiation. HER2 is thought to be an orphan receptor, with none of the EGF family of ligands able to activate it. Approximately 30% of breast cancers have an amplification of the HER2 gene or overexpression of its protein product. Overexpression of this receptor in breast cancer is associated with increased disease recurrence and worse prognosis. HER2 appears to play roles in development, cancer, communication at the neuromuscular junction and regulation of cell growth and differentiation.

Human CellExp ErbB2 / HER2 / CD340, human recombinant protein - References

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Tal M., et al. Mol. Cell. Biol. 7:2597-2601(1987).