

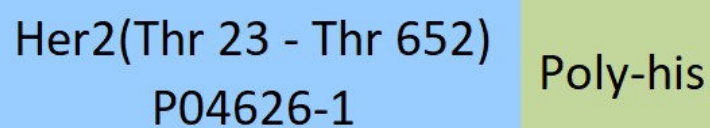
Synonym

ERBB2,CD340,HER-2,neu,HER2,MLN19,NEU,NGL,TKR1

Source

PE-Labeled Human Her2, His Tag (HE2-HP2E3) is produced via conjugation of PE to Human Her2, His Tag under optimal conditions. Human Her2, His Tag is expressed from human 293 cells (HEK293). It contains AA Thr 23 - Thr 652 (Accession # [P04626-1](#)).

Predicted N-terminus: Thr 23

Molecular Characterization


This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 73.0 kDa.

Application

Evaluation of anti-HER2 CAR expression by flow cytometry. Please note that this product is NOT compatible to streptavidin detection system.

Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.5% BSA, pH7.4. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

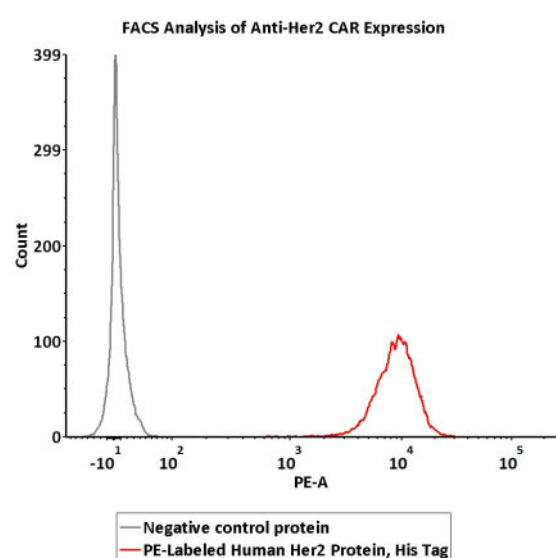
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please protect from light and avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

Bioactivity-FACS

5e5 of anti-Her2 CAR-293 cells were stained with 100 µL of 1:25 dilution (4 µL stock solution in 100 µL FACS buffer) of PE-Labeled Human Her2, His Tag (Cat. No. HE2-HP2E3) and negative control protein respectively. PE signal was used to evaluate the binding activity (QC tested).

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 .

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.