Leader in Biomolecular Solutions for Life Science

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Human HER2 Monoclonal Antibody

Catalog No.: YR0015

Basic Information

Molecular Weight
150 kDa

Endotoxin
<1EU/mg (<0.001EU/μg)Determined by LAL gel clotting assay

Sterility
0.2 μm filtration

Aggregation
<5% Determined by SECP

Purity
>95% Determined by SEC-HPLC

Background

Trastuzumab, a humanized monoclonal antibody, interferes with the HER2/neu receptor and is mainly used to treat certain breast cancers, especially HER2-positive metastatic breast cancer. Combined with chemotherapy, trastuzumab increases both survival and response rate.There are four closely related receptor tyrosine kinases in the ErbB family of receptors: EGFR (ErbB-1; HER1 in humans), HER2/c-neu (ErbB-2), Her 3 (ErbB-3) and Her 4 (ErbB-4). Bound by members of the epidermal growth factor family (EGF-family) of extracellular protein ligands, the HER receptors embedded in the cell membrane promote cell growth and division by turning genes on and off. The HER2 pathway stimulates cell proliferation if it normally functions; when HER2 is overexpressed, cell growth accelerates beyond its normal limits, which happens in some cancers, notably certain types of breast cancer.

Reported Applications

ELISA,neutralization,functional assays such as bioanalytical P K and ADA assays,and those assays for studying biological pathways

Immunogen Information

Clone
Trastuzumab Biosimilar

Isotype
Human IgG1 kappa

Immunogen
human HER2

RecommendedIsotype Control(s)
In Vivo Grade Recombinant Human IgG1 Kappa Isotype Control Antibody

Recommended Dilution Buffer
1×PBS pH 7.3

Contact

400-999-6126

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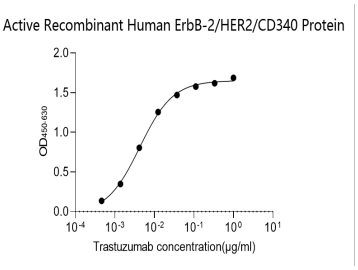
Product Information

Production
Purified from cell culture supernatant in an animal-free facility

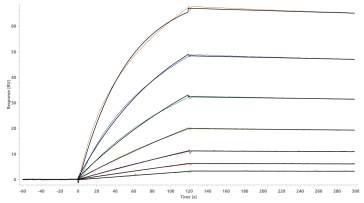
Purification
Protein A/G

Storage
Store at -20℃

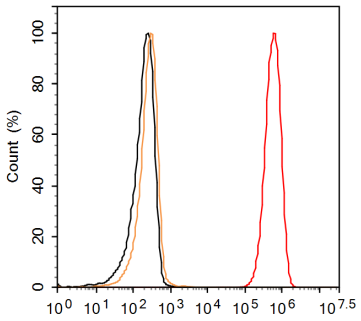
Validation Data



Direct ELISA binding curve demonstrating the recognition of Human Anti-Human ErbB2/HER2 (Research Grade Trastuzumab Biosimilar) Monoclonal Antibody to ErbB2/HER2. The target protein was coated onto the microplate well surface, followed by binding of the antibody. A donkey anti-human IgG HRP conjugate was used for detection.



Determined through SPR assay, the Human Anti-Human ErbB2/HER2 (Research Grade Trastuzumab Biosimilar) Monoclonal Antibody is capable of binding to Human ErbB2/HER2 with an affinity constant of 0.4389 nM.



Detection of ErbB2/HER2 in SK-BR-3 cell line by Flow Cytometry. SK-BR-3 cell line was stained with Human Anti-Human ErbB2/HER2 (Trastuzumab Biosimilar) Monoclonal Antibody followed by APC conjugated Anti-Human IgG Secondary Antibody, or unstained cells (open yellow histogram).