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Human EGFR Monoclonal Antibody

Catalog No.: YR0011

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

Cetuximab, a chimeric (mouse/human) anti-EGFR monoclonal antibody, is an EGFR inhibitor used for the treatment of metastatic colorectal cancer and head and neck cancer. Cetuximab binds to EGFR and turns off the uncontrolled growth in cancers with EGFR mutations.Cetuximab can be used for treatment of KRAS wild type colon cancer but has little or no effect in colorectal tumors harboring a KRAS mutation. Before treatment using Erbitux, it is better to do a diagnosis using the real time PCR companion diagnostic test for KRAS, the therascreen KRAS test.

Reported Applications

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

Immunogen Information

Clone
Cetuximab Biosimilar

Isotype
Human IgG1 kappa

Immunogen
Human EGFR

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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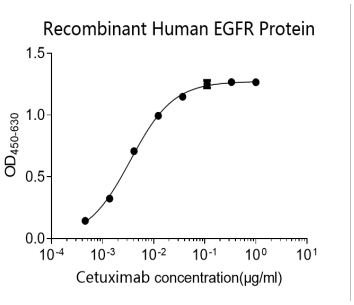
Product Information

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

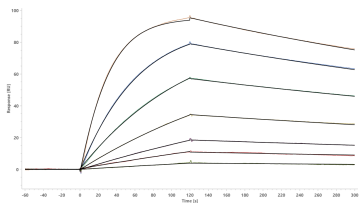
Purification
Protein A or G purification

Storage
Store at -20℃

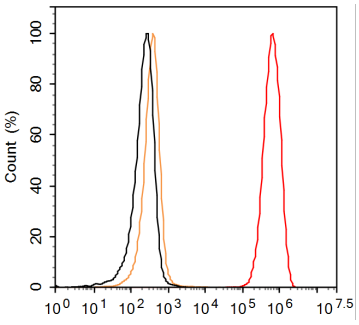
Validation Data



Direct ELISA binding curve demonstrating the recognition of Human Anti-Human EGFR (Research Grade Cetuximab Biosimilar) Monoclonal Antibody to EGFR. 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.



Human EGFR SPR assay. Determined through SPR assay, the Human Anti-Human EGFR (Research Grade Cetuximab Biosimilar) Monoclonal Antibody is capable of binding to Human EGFR with an affinity constant of 0.2295 nM.



Detection of EGFR in A431 cell line by Flow Cytometry. A431 cell line was stained with Human Anti-Human EGFR(Cetuximab Biosimilar) Monoclonal Antibody followed by APC conjugated Anti-Human IgG Secondary Antibody, or unstained cells (open yellow histogram).