

HEK 293 Host Cell Protein G1 ELISA Kit

HEK 293 Host Cell Protein ELISA Kit, G1

CATALOG #
AAA247882

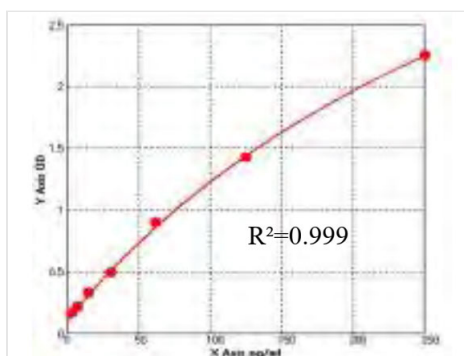
PRODUCT SYNONYMS

HEK 293 Host Cell Protein G1; HEK 293 Host Cell Protein ELISA Kit; G1; HEK 293 Host Cell Protein G1 elisa kit

PRODUCT SPECIFICATIONS

Assay Type	Sandwich
Preparation and Storage	Storage at 2-8 degree C

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for HEK 293 Host Cell Protein G1 elisa kit

Background: Human Embryonic Kidney 293 Cells, commonly known as HEK 293, is widely utilized as an expression of therapeutic proteins. The process of expressing target proteins, undergoing concomitant apoptosis, which release up to a thousand of host proteins into cell culture medium after the break of cells. These host proteins exhibit strong immunogenicity, which can lead to adverse toxicity or immune reactions, jeopardizing product safety and quality, and causing potential biological contamination. One of the aims of downstream processes in the production of biological medicinal products is to remove these potential hazards. Therefore, it is essential to minimize the residual levels of host cell proteins (HCP), and in the downstream purification process development, a scientifically sound method for determining the concentration of HCP in finished or semi-finished products is necessary. Enzyme-linked immunosorbent assay (ELISA) has a high sensitivity and is therefore designated as the gold standard for HCP detection by regulatory agencies.

Principle of the Assay: This ELISA kit is applied to the solid phase sandwich Enzyme-Linked Immunosorbent Assay. The microplate has been pre-coated with a capture antibody. The antigen to be measured and the HRP-conjugated detection antibody are then added to the microplate wells sequentially to form a capture antibody-antigen-detection antibody complex. After washing, the conjugates uninvolved in the reaction are removed, and then a TMB substrate solution is added to the wells to incubate. TMB substrate solution turns blue after the oxidation of HRP and finally turns yellow immediately after adding the stop solution. The color of the TMB substrate positively correlated with the antigen bound in the initial steps. Measure the absorbance (OD value) at 450nm using a microplate reader, and create a standard curve along with the corresponding concentrations. Then, by inputting the OD values of the samples into the standard curve equation, calculate the concentration of the target protein in the sample.

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/elisa-kits/hek-293-host-cell-protein-g1/247882>