

RSV Fusion Protein ELISA Kit | RSV elisa kit

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CATALOG #
AAA44704

REACTIVITY
RSV

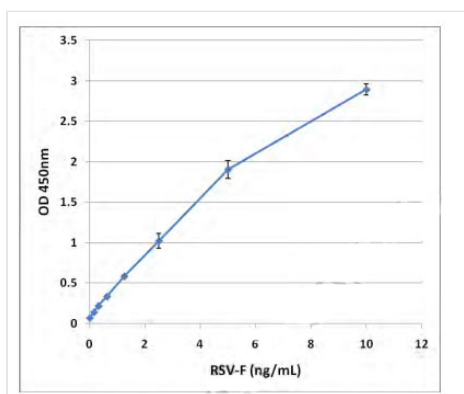
PRODUCT SYNONYMS

RSV Fusion Protein; RSV Fusion Protein ELISA Kit; RSV elisa kit

PRODUCT SPECIFICATIONS

Reactivity	RSV
Detection Method	Colorimetric

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for RSV elisa kit	Background: Respiratory syncytial virus (RSV) infection is a significant cause of hospitalization of children and one of the leading causes of death of infants less than 1 year of age worldwide. RSV is a member of the Pneumoviridae genus and contains a single-stranded non-segmented negative-sense RNA genome approximately 15,200 nt in length. There are three surface proteins that coat the virion: small hydrophobic (SH), attachment (G), and fusion (F). G and F proteins are the major antigenic proteins. RSV is categorized into subgroups A and B based on the sequence of the G protein. RSV-F protein is a trimeric transmembrane glycoprotein that mediates binding of RSV to cellular receptors and induces pH-independent fusion between the viral envelope and the cellular plasma membrane. The F glycoprotein is highly conserved among RSV isolates from both A and B subgroups, with over 90% amino acid sequence identities. The RSV Fusion Protein ELISA Kit is an enzyme immunoassay developed for detection and quantitation of the RSV fusion protein. The ELISA antibodies recognize the fusion protein from both RSV type A and type B. The kit has a detection sensitivity limit of 156 pg /mL RSV-F. Each kit provides sufficient reagents to perform up to 96 assays including standard curve and RSV lysate samples. Principle of the Assay: An anti-RSV fusion protein monoclonal coating antibody is adsorbed onto a microtiter plate. RSV fusion protein present in the sample or standard binds to the antibodies adsorbed on the plate; an FITC-conjugated anti-RSV fusion protein monoclonal antibody is added and binds to the RSV fusion protein captured by the first antibody. Following incubation and wash steps, a HRP-conjugated mouse anti-FITC antibody is added and binds to the FITC conjugated anti- RSV fusion protein monoclonal antibody. Unbound HRP-conjugated mouse anti-FITC antibody is removed during a wash step, and substrate solution reactive with HRP is added to the wells. A colored product is formed in proportion to the amount of RSV fusion protein present in the sample. The reaction is terminated by addition of Stop Solution and absorbance is measured at 450 nm. A standard curve is prepared from RSV fusion protein standard and sample RSV fusion protein concentration is then determined.
Product Categories/Family for RSV elisa kit	Pathogen and Toxin Assays; Viral Protein Detection Assays; RSV Fusion Protein ELISA Kit

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/rsv-elisa-kits/rsv-fusion-protein/44704>