

## RSV Nucleoprotein ELISA Kit | RSV elisa kit

RSV Nucleoprotein ELISA Kit

CATALOG #  
**AAA44705**

REACTIVITY  
**RSV**

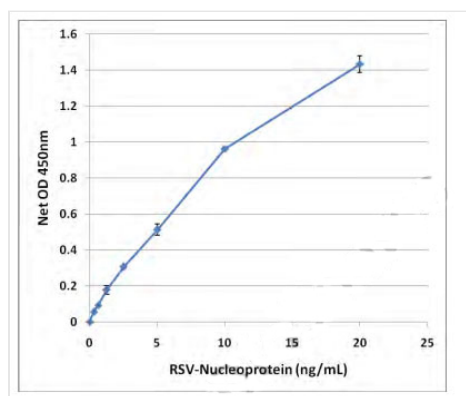
### PRODUCT SYNONYMS

RSV Nucleoprotein; RSV Nucleoprotein ELISA Kit; RSV elisa kit

### PRODUCT SPECIFICATIONS

|                  |              |
|------------------|--------------|
| Reactivity       | RSV          |
| Detection Method | Colorimetric |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

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| Related Product Information for RSV elisa kit | <p>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 nucleoprotein (N) is essential for virus assembly and replication. It is essential for virus encapsidation by coating the entire viral RNA genome to form the ribonucleoprotein. The RSV nucleoprotein is highly conserved among RSV isolates from both A and B subgroups, with over 95% amino acid sequence identities. The RSV Nucleoprotein ELISA Kit is an enzyme immunoassay developed for detection and quantitation of the RSV nucleoprotein. The ELISA antibodies recognize the nucleoprotein of both RSV type A and type B. The kit has a detection sensitivity limit of 313 pg/mL RSV nucleoprotein. Each kit provides sufficient reagents to perform up to 96 assays including standard curve and RSV lysate samples.</p> <p>Principle of the Assay: An anti-RSV nucleoprotein monoclonal coating antibody is adsorbed onto a microtiter plate. RSV nucleoprotein present in the sample or standard binds to the antibodies adsorbed on the plate; an FITC-conjugated anti-RSV nucleoprotein polyclonal antibody is added and binds to the RSV nucleoprotein 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 nucleoprotein polyclonal antibody. Unbound HRP-conjugated mouse anti-FITC antibody is removed during a wash step, and a substrate solution reactive with HRP is added to the wells. A colored product is formed in proportion to the amount of RSV nucleoprotein 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 recombinant RSV nucleoprotein standard and sample RSV nucleoprotein concentration is then determined.</p> |
| Product Categories/Family for RSV elisa kit   | Pathogen and Toxin Assays; Viral Protein Detection Assays; RSV Nucleoprotein 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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/rsv-elisa-kits/rsv-nucleoprotein/44705>