**BACKGROUND**
Respiratory Syncytial Virus (RSV) is a major cause of respiratory illness in children who have not received the vaccine or treatment. Respiratory Syncytial Virus is a negative sense, enveloped, RNA virus. The virion has an average diameter between 120 and 300 nm. The fusion protein of the RSS 2 strain (subtype A) directs fusion of viral and cellular membranes, results in viral penetration and can form syncytia or multi-nucleated giant cells. The matrix protein plays a role in viral assembly and has been observed to traffic into and out of the nucleus at specific times during the respiratory infectious cycle. The matrix protein has also been shown to be able to inhibit transcription, which may be a key to respiratory pathogenesis.

**REFERENCES**

**SOURCE**
Respiratory Syncytial Virus (2F7) is a mouse monoclonal antibody raised against recombinant Respiratory Syncytial Virus.

**PRODUCT**
Each vial contains 50 µg IgG1 in 500 µl PBS with < 0.1% sodium azide and 0.1% gelatin.

**APPLICATIONS**
Respiratory Syncytial Virus (2F7) is recommended for detection of fusion proteins F₀ and F₁ of Respiratory Syncytial Virus origin by Western Blotting (starting dilution to be determined by researcher, dilution range 1:100-1:5000), immunofluorescence (starting dilution to be determined by researcher, dilution range 1:50-1:2500) and solid phase ELISA (starting dilution to be determined by researcher, dilution range 1:100-1:5000).

Molecular Weight of Respiratory Syncytial Virus F₀: 70 kDa.
Molecular Weight of Respiratory Syncytial Virus F₁: 50 kDa.

**SELECT PRODUCT CITATIONS**

**STORAGE**
Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**
For research use only, not for use in diagnostic procedures.

**PROTOCOLS**
See our web site at www.scbt.com for detailed protocols and support products.