

## 12-8412: Anti-Respiratory Syncytial Virus (RSV)

**Clonality :** Monoclonal

### Description

**Specificity:** This monoclonal antibody recognizes respiratory syncytial virus (Clone RSV-78952) and is specific for the fusion protein of RSV Types A&B. These antibodies are non-reactive with: Influenza A & B, Adenovirus, Para 1-3, Measles, Mumps

**Background:** Respiratory syncytial virus (RSV) is a common respiratory virus that infects the majority of children by two years old<sup>1, 2</sup>. While usually mild, RSV can be serious in infants and older adults and is the leading cause of bronchiolitis and pneumonia in children less than one year of age in the United States<sup>1</sup>. A related pneumovirus, human metapneumovirus (hMPV), also significantly contributes to hospitalizations resulting from lower respiratory tract infection<sup>2</sup>. Antibodies have been described that bind and neutralize both RSV and hMPV fusion (F) proteins. RSV F protein is a type I integral membrane protein that is synthesized as a 574 amino acid inactive precursor, assembled into a trimer, post-translationally modified, then cleaved to produce F1, F2, and intervening peptide pep273. Functional F protein has both pre- and post-fusion conformations. RSV F protein is highly conserved among RSV isolates from both A and B subgroups<sup>3</sup> and is the primary target for antiviral drug development<sup>3</sup> with several antigenic regions capable of introducing neutralizing antibodies<sup>2</sup>. RSV and hMPV F protein share ~36% sequence similarity.

### Product Info

<b>Amount :</b>	250 µg Purity :>90% monomer by analytical SEC and SDS-Page
<b>Purification :</b>	Preparation : This monoclonal antibody is purified using a multi-step process, including the use of protein A or G to ensure extremely low levels of leachable protein A or aggregates from ascites fluid or culture medium.
<b>Content :</b>	Concentration:100 µg/ml Formulation: This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate-buffered saline, pH 7.2 and contains 0.1% sodium azide.
<b>Storage condition :</b>	This product contains no stabilizing proteins and should be stored at 2-8°C until ready to use.

### Application Note

Neutralizes